

Laser Safety

Self-Audit Checklist

Building _____ Room _____ Principal Investigator _____

Audit Performed by _____ Date _____

	Y	N	NA	COMMENTS
A. Administrative				
1. Lasers are classified appropriately (2, 3R, 3B, 4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Standard operating procedures are available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Alignment procedures are available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Viewing cards are used for alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Laser users attended appropriate training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Lasers are included in inventory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B. Labeling and Posting				
1. Certification label present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Class designation and appropriate warning label present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Radiation output information on label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Aperture label present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Appropriate warning/danger sign at entrance to laser area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Warning posted for invisible radiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C. Control Measures				
1. Protective housing present and in good condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Beam attenuator present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Laser table below eye level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Beam is enclosed as much as possible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Beam not directed toward doors or windows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Beams are terminated with fire-resistant beam stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Surfaces minimize specular reflections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Controls are located so that the operator is not exposed to beam hazards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D. Personal Protective Equipment				
1. Eye protection is appropriate for wavelength	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Eye protection has adequate OD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Warning/indicator lights can be seen through protective filters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E. Class 3b and 4 Lasers				

1. Interlocks on protective housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Service access panel present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Limited access to spectators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Nominal hazard zone determined	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Operators do not wear watches and reflective jewelry while laser is operating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Viewing portals present where MPE is exceeded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

F. Class 4 Lasers

1. Failsafe interlocks at entry to controlled area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Area restricted to authorized personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Laser may be fired remotely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. If present, curtains are fire-resistant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Area designed to allow rapid emergency egress	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Pulsed- interlocks designed to prevent firing of the laser by dumping the stored energy into a dummy load	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. CW- interlocks designed to turn off power supply or interrupt the beam by means of shutters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Operators know not to wear ties around the laser	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

G. Non-Beam Hazards

1. High voltage equipment appropriately grounded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. High voltage equipment located away from wet surfaces or water sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. High voltage warning label in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Compressed gases secured	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	