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Safety Fact

The most common causes of laser accidents in research labs are the following:

(1) Not wearing appropriate safety goggles

(2) Not reducing power for alignment procedures, or unintended power increase

(3) Stray beams left uncontained by beam stops or other barriers

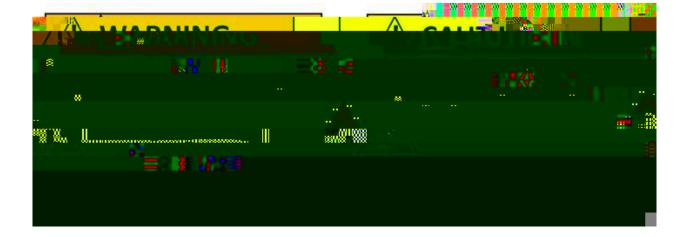


1. Introduction to the USF Laser Safety Program

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9. Ultraviolet (UV) Laser Protection

Embedded Laser

spatially, or both)

Magnified Viewing

Pulse Duration

Pulse-repetition Frequency (PRF)

Pulsed Laser

Threshold Limit (TL)

Appendix C: Control Measures fo



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Appendix D: Laser Classifications

Class 3B

Class 4

Appendix E: Alignment Procedures Guidelines

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Appendix F: PI Laser Checklist

Use this checklist to evaluate the laser safety program in your lab.

This checklist is intended for Class 3B and Class 4 laser users. Note that not all safety items on this checklist will apply to your laser safety program.

PI:	Auditor:	Audit Date:
Building/Room		
Lasers in USE in lab Manufa	acturer(s) - Model(s)	Laser Class: 3B / 4 / other:
Class 3b and/or Class 4 laser	rs are registered with USF LS	0: Y / N

Documents and Security

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Each user has completed USF online lasertsafety

Laser Safety

Proper eyewear available for all

Appendix G: USF class 3B and 4 Laser user template Laser System Standard Operating Procedure (SOP) Template

required

Instructions:

PI shall use this template to create a standard operating procedure for each Class 3B or Class 4 laser.

The PI shall train all Laser Users on this procedure and ensure it is followed each time the laser is used.

Keep this paper SOP in a common location readily available to the Pl and Laser User. This SOP should always be available for review upon request of the Laser Safety Officer. For specifications or operating conditions that frequently change, list anticipated ranges of specifications or operational settings.

This Laser Standard Operating Procedure has been written to aid with the safe use of the laser identified below. Laser Supervisors and Laser Users must follow this procedure for each laser use.

LASER SAFETY CONTACTS

	Laser PI:		Phone:	Mobile:	
	Primary Laser User:		Phone:	Mobile:	
•	Laser Safety Officer:	Adam Weaver	Phone::		

Laser Output	Wavelength(s) or Wavelength Range (nm)	Power (W)	Pulse Energy (J)	Pulse Duration (sec)	Pulse Frequency (Hz)
Continuous					

Brief Description of Laser Use (specific to the lab):

2. SETUP, ALIGNMENT AND OPERATING PROCEDURES

A. Alignment/Setup

(Please indicate who will be responsible for performing these procedures and include specific beam alignment/visualization aids to be used as well as PPE.)

B. Start-up and Operation

(List the basic sequential events that describe the complete operation, including when to don laser eyewear, etc. The procedures shall be written for the benefit of the Laser User who must read and understand them to perform the operation safely.)

Plasma/blue light exposure

Other (specify):

Laser User Review:

I have read and understand this procedure and have been trained on implementing its contents.

Name (Printed)	Sgnature	Date
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		

12.

APPENDIX H:

USF Laser Safety Committee Duties and Responsibilities