THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

LASER SAFETY PLAN TEMPLATE

Use this template to draft a Laser Safety Plan for all Class 3B and Class 4 lasers and laser systems. Refer to the UAH Laser Safety Manual for more specific requirements and guidelines.

Laser Safety Plan Development for:

1. Laser or laser system to be acquired ☐
2. Current on-site laser or laser system ☐

Laboratory Information:

PI Name: _____ Building & Room #: _____

PI Phone # _____ PI Email: _____

Laser Information

Please list the types of laser(s) and the wavelength(s) used:			
Laser Class:	☐ Class 3B (5-500 mW or <125 mJ pulsed)	☐ Class 4 (>500 mW or >125 mJ pulsed)	
☐ Continuous Wave	☐ Repetitively Pulsed	☐ Single Pulse	☐ Pulse Groups/Q-Switch

Research Description/Summary

Outline the application of the laser use in your laboratory.

Training Requirements

1) Laser Safety Training – All individuals intending to use this laser/laser system must complete the Laser Safety Training course available in Percipio.

2) Hands-On Training – All individuals intending to use this laser/laser system must attend a lab-specific training provided by the Principal Investigator or an experienced senior researcher in the lab. The training should include the basic operation of the laser, its associated system(s) and a focus on the established hazards and controls of the laser/laser system outlined in this Laser Safety Plan.

Laser Hazards

List all hazards associated with this laser/laser system. Specify each hazard.

Beam Hazards *Severe eye damage (including blindness) and skin damage can result from direct beam or specular reflection exposure. Eye damage may also result from diffuse reflections.* Beam hazards include:
Electrical Hazards *Electrical shock or electrocution could result from direct contact with high voltage.* Electrical hazards include:
Chemical Hazards Chemical hazards include:
Other Hazards Other hazards associated with this laser include:

Personal Protective Equipment (PPE)

Laser eye protection should always be worn during an experiment. Inspect all eyewear periodically and ensure it is in good condition. Ensure eyewear with the correct Optical Density (OD) and wavelength is provided to laser operators and visitors. Include additional PPE required for other hazards involved.

Laser Eyewear (List all types available for this laser system)			
For this laser…		…use this eyewear	
Laser Type	Wavelength(s)	OD	Attenuated Wavelength(s)(nm)

☐ Face Shield ☐ UV Goggles ☐ Chemical Goggles ☐ Gloves ☐ Protective Clothing

☐ Other PPE:

Engineering & Administrative Controls

Identify the methods of hazard controls for the laser system (check all that apply):

☐ Controlled area (curtain, barrier, enclosure, etc)

☐ Entry Control (keycard, key, etc)

☐ Alignment procedures

☐ Visitors/Observers (specify control measures):

☐ Other (specify):

☐ Illuminated warning light and door posting

☐ Temporary sign

Operating Procedures

Alignment Procedures:

Emergency Procedures

In the event of a laser incident:

- Shut off the laser system and remove the interlock key.
- Obtain medical assistance immediately in case of eye exposure, suspected exposure to laser radiation or any health threatening injuries.
- In the event of fire, pull the alarm, and contact 911.
- Inform your PI and/or laser supervisor following the incident.
- Contact OEHS and the Laser Safety Officer to report the incident.