



## **EHS-445, LASER STANDARD OPERATING PROCEDURE**

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### **Instructions:**

- Use this form as a template to create a standard operating procedure for each process that utilizes Class 3B or Class 4 lasers. **NOTE:** If your SOP(s) are already documented in another form, you may use your current document(s).
- Train all laser operators on this procedure and ensure it is followed each time the laser or laser system is used.
- This procedure should be kept in a common location readily available to all laser operators.
- This procedure should always be available for submission to the Laser Safety Officer if requested.

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### **1. LASER SAFETY CONTACTS**

- Department/Division: \_\_\_\_\_ Building: \_\_\_\_\_ Room Number: \_\_\_\_\_
- Principal Investigator: \_\_\_\_\_ Phone: \_\_\_\_\_
- Primary Operator: \_\_\_\_\_ Phone: \_\_\_\_\_
- Laser Safety Officer/Coordinator: \_\_\_\_\_ Phone: \_\_\_\_\_
- Medical Emergencies: \_\_\_\_\_ Phone: \_\_\_\_\_

### **2. LASER DESCRIPTION**

A. Application: \_\_\_\_\_

B. Specifications:

ACTIVE MEDIUM	BEAM TYPE (CW, PULSED, Q-SWITCHED)	WAVELENGTH	POWER	MPE	MIN. OD

C. Specific Non-Beam Hazards of this System (check all that apply)

Chemical (dyes, solvents, etc.); attach SDS if applicable  
 Electrical (high voltage, large current, etc.)  
 Laser Generated Air Contaminants  
 Compressed gases or cryogenic liquids  
 Fire/ignition source  
 Other (specify): \_\_\_\_\_

Briefly describe control measures for any items checked above:

**3. OPERATING AND SAFETY PROCEDURES**

- A. Startup Procedures (including manufacturer's recommended steps and the point at which laser protective eyewear must be donned):

- B. Special Procedures (alignment, safety tests, maintenance tests, other):

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C. Operating procedures (power settings, Q-switch mode, pulse rate, other):

D. Shutdown procedures:

E. Emergency procedures:

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### 4. PERSONNEL PROTECTIVE EQUIPMENT

#### A. Eyewear

LASER EYEWEAR				
For This Laser...		...Wear This Eyewear		
TYPE	WAVELENGTH(S) (NM)	MANUFACTURER/ MODEL	OPTICAL DENSITY OD	REMARKS

#### B. Other Protective Equipment Required within Nominal Hazard Zone

ITEM	LOCATION	USAGE CONDITION

**NOTE: *All laser operators are to follow this procedure each time the laser or laser system is used.***