

# Laboratory for Laser Energetics

## University of Rochester

### LASER SAFETY SURVEY

(ONE LASER PER FORM)

THE FOLLOWING INFORMATION IS REQUIRED BY THE UNIVERSITY

Room no. \_\_\_\_\_ Room name \_\_\_\_\_

Responsible Individual(s) & Group \_\_\_\_\_

Emergency Contact \_\_\_\_\_

L A S E R  I N V E N T O R Y	MANUFACTURER (IF IN-HOUSE, THEN LLE) _____
	MODEL (IF LLE, THEN NAME OF SYSTEM) _____
	SERIAL NUMBER (IF ANY) _____
	Laser CLASSIFICATION (CLASS 1, 1M, 2, 2M, IIIa, 3R, 3B, or 4) _____
	YEAR MANUFACTURED _____
	TYPE (CW OR PULSED) _____
	Description (LASING MEDIUM) _____
	MAXIMUM OUTPUT _____
	OPERATIONAL WAVELENGTH(S) [nm] _____
	PULSE WIDTH/REPETITION RATE _____
	Beam DIVERGENCE _____
	EMERGENT BEAM DIAMETER _____
	Operational (Active or Inactive)? _____
LLE Tag No. (if any) _____	
Purpose _____	

**Please answer the following questions with Y (yes), N (no), or NA (not applicable)**

**Documentation**

- Have all laser operators had laser-safety orientation? .....
- Have all laser operators had eye exams? .....
- Will all operators of this laser be qualified? .....
- Has the principal investigator approved the operating procedures? .....
- Have all laser operators been informed of emergency procedures? .....
- Are there any laser operators who are students? .....
- Where are the written operating procedures located? \_\_\_\_\_

**Personal Protective Equipment — Goggles**

- Do operators wear laser-safety goggles? .....
- Are goggles available for visitors? .....
- Are all goggles labeled? .....
- Are non-laser-safety goggles stored with laser goggles? .....

(continued on reverse side)

## LLE Laser Safety Survey (cont.)

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### Personal Protective Equipment — Other

- Are gloves available for UV use? ..... \_\_\_\_\_
- Is the needed personal protective equipment available for cryogenic liquids? .... \_\_\_\_\_
- Is personal protective equipment available for chemicals? ..... \_\_\_\_\_

### Warning System

- Are the appropriate warning signs accurate? ..... \_\_\_\_\_
- Are there appropriate warning signs on the door? ..... \_\_\_\_\_
- Are the signs functional? (please contact LSO if bulbs need replacement) ..... \_\_\_\_\_
- Is the warning system an alarm, warning light, or verbal announcement? ..... \_\_\_\_\_

### Service

- Is this laser built in-house? ..... \_\_\_\_\_
- Is in-house service available for this laser? ..... \_\_\_\_\_
- If not, please list the service company's name \_\_\_\_\_

### Beam Paths

- Are beams terminated at the end of the useful path? ..... \_\_\_\_\_
- Is any beam path at eye level? ..... \_\_\_\_\_
- Is the laser oriented away from doors and aisles? ..... \_\_\_\_\_
- Do personnel use jewelry when using lasers? ..... \_\_\_\_\_
- Are Class 4 beam enclosures fabricated from fire-resistant materials? ..... \_\_\_\_\_
- Are optical systems aligned using film or devices to minimize eye exposures? .. \_\_\_\_\_

### Unattended Operations

- Is this system operated unattended? ..... \_\_\_\_\_
- Are the doors locked during operation? ..... \_\_\_\_\_

### After-hours Operations

- Are operators using the "Buddy System"? ..... \_\_\_\_\_
- Have the operators received approval from their supervisor? ..... \_\_\_\_\_

### Electrical Safety

- Are energized components enclosed? ..... \_\_\_\_\_
- Is the laser enclosure properly grounded? ..... \_\_\_\_\_
- Are extension cords in use? (extension cords are prohibited) ..... \_\_\_\_\_

### Chemical Safety

- Are the chemicals stored properly according to hazard class? ..... \_\_\_\_\_
- Is secondary containment used for dye lasers & associated equipment (pumps)? \_\_\_\_\_
- Are Material Safety Data Sheets (MSDS) available for all chemicals? ..... \_\_\_\_\_
- Are compressed gas cylinders stored properly (upright, labeled, strapped)? ..... \_\_\_\_\_
- Are halogenated gases used in exhaust system designed for them? ..... \_\_\_\_\_
- Is a Class B:C fire extinguisher within 50 ft of locations where solvents are used? \_\_\_\_\_

Signoff \_\_\_\_\_

Date \_\_\_\_\_

Print Name \_\_\_\_\_

Please return this form to the Laser Safety Officer, Eugene Kowaluk (LLE East mailbox)