**PLR Name:** Click or tap here to enter text.

Laser Lab Hazards Assessment Form

**Building and Lab/Room Number:** Click or tap here to enter text.

1. **Mark ALL hazards present in the lab associated with your laser system and explain how those hazards will be addressed.**

[x]  **Eye hazard from direct beams:** Approved laser safety eyewear with an optical density for the laser that is operating must be worn by all persons inside the lab when the laser is energized. Laser operators are required to avoid direct observation of the output of laser or optical fibers without approved laser safety eyewear.

[ ]  **Visible open beams:** Click or tap here to enter text.

[ ]  **Invisible UV open beams:** Click or tap here to enter text.

[ ]  **Invisible infrared open beams:** Click or tap here to enter text.

[ ]  **Exposed high voltage power supplies *(specify location and power)*:** Click or tap here to enter text.

[ ]  **Exposed capacitors:** Click or tap here to enter text.

[ ]  **Particulates/Fumes/Vapors:** Click or tap here to enter text.

[ ]  **Collecting optics (e.g. microscopes, telescopes, etc.)**: Click or tap here to enter text.

[ ]  **Plasma radiation:** Click or tap here to enter text.

[ ]  **Hazardous Chemicals:** Click or tap here to enter text.

[ ]  **Hazardous Waste** Click or tap here to enter text.

[ ]  **Fire and/or combustible materials** Click or tap here to enter text.

[ ]  **Compressed gases:** Click or tap here to enter text.

[ ]  **Cryogenics *(specify location)*:** Click or tap here to enter text.

### ADDITIONAL CONTROL MEASURES/HAZARD MITIGATION

1. **Entryway controls** *(select at least one method)*

[ ]  Red flashing light is turned on in locked box.

[ ]  Lit sign interlocked with laser power supply.

[ ]  Lit laser sign controlled by switch. Laser operator will turn on the sign prior to energizing laser. At the completion of use, when the laser is de-energized, the light will be turned off.

[ ]  Other – (please describe) Click or tap here to enter text.

1. **Optics are secured** to the table to prevent stray beams.
2. **No reflective surfaces** are permitted near open beams. All jewelry such as watches, rings, bracelets, etc. are removed. Computer screens are turned away from the beam or blocked by barrier(s).
3. **Table barriers** are incorporated around the laser bench to prevent inadvertent stray beams (during misalignment). The LSO will be contacted for approval if any table barriers are removed. Do not energize the laser until all laser barriers are in their approved place.
4. **Laser curtains** are in place to form a light-tight barrier around the Nominal Hazard Zone (NHZ) or around the working area. Curtains are approved by the LSO and signage is prominent on or near the curtain warning of the danger.
5. **Nominal Hazard Zone (NHZ) must be clearly marked** on the optical bench and eyewear is required inside the NHZ.
6. **Key switch** controls laser power supply. Key is removed from power supply when laser is not in use. Key is recommended to be kept with eyewear.
7. **Authorized Operators** will have access and may enter the laboratory at any time. Operators are responsible for following all provisions of this SOP at all times.
8. **Controlled laser beams** will be initiated with the beam terminating on a specific target or a diffusely reflecting surface. The laser operator will notify all personnel in the laboratory before a laser beam is initiated. When practical, beam paths at sitting or standing eye level will be avoided.
9. **Aim beam away** from an area that could cause inadvertent stray hazards.
10. **Emergency shut down button or key** must be present, labeled, and visible in case of an emergency situation and the laser needs to be shut down immediately.
11. **Required Training:** UConn Laser Safety training is required of all operators and non-operators in the lab during laser use. Laser Safety Initial (and/or Refresher) for Users (online) through HuskySMS and a lab-based checklist is required with observed hands-on training for those operating the laser. Those that use the lab but will not be in the lab during operation of the laser will require the lab-based checklist (non-user portion) only.
12. **Eye Examinations:** Following an accidental exposure to the laser beam, an eye examination is required of all authorized operators in compliance with ANSI Z-136.1-2014.