

PURDUE UNIVERSITY Laser Safety

Laser Registration

Laser Type

- Stationary Indoor
- Mobile Indoor
- Stationary Outdoor
- Mobile Outdoor

REM Use Only	
Authorization #:	
Database:	
Assistant LSO	LSO

Primary Location: _____
Building Room

Laser Principal Investigator (LPI): _____
Last Name First Name Middle Initial

Department: _____ Email: _____
Purdue Email Address Preferred

Laser System Specifications

Manufacturer: _____ Model: _____
 Laser Type: _____ Class: _____ System Date: _____
 Serial #: _____ Purdue University Inventory #: _____
 Required [SOPs](#) are posted: Yes No
 Beam diameter & divergence measured at: 1/e point 1/e² point.
 Beam Shape is: Circular Elliptical Rectangular Multiple Array: _____
 Beam Diameter₁ (mm): _____ Beam Divergence₁ (mradian): _____
 Beam Diameter₂ (mm): _____ Beam Divergence₂ (mradian): _____
 Beam Interlocks are: Fail-Safe Fallible: _____

All service to the laser will be performed by a certified technician from the manufacturer or equivalent (i.e. has training documentation for laser service and electrical safety). Yes No

Continuous Wave (CW)

Pulsed: (**Single** **Multiple**)

Wavelength (nm): _____ Maximum Operating Power (W): _____ Average Operating Power (W): _____	Wavelength (nm): _____ Maximum Operating Energy (J): _____ Average Operating Energy (J): _____ Minimum Pulse Duration (sec.): _____ Maximum Pulse Frequency (Hz): _____
--	---

Check Appropriate Box for Items Below

Yes	No
<input type="checkbox"/>	<input type="checkbox"/> High voltage used (> 600 volts)
<input type="checkbox"/>	<input type="checkbox"/> High voltage supplies are accessible (> 30 kVp)
<input type="checkbox"/>	<input type="checkbox"/> Energized parts are placed in safe working condition
<input type="checkbox"/>	<input type="checkbox"/> Use of beam focusing optics
<input type="checkbox"/>	<input type="checkbox"/> Tunable laser
<input type="checkbox"/>	<input type="checkbox"/> Used as a pumping laser
<input type="checkbox"/>	<input type="checkbox"/> Exposed beam path
<input type="checkbox"/>	<input type="checkbox"/> Laser Generated Air Contaminants (LGACs) produced
<input type="checkbox"/>	<input type="checkbox"/> Home-fabricated or self-modified laser
<input type="checkbox"/>	<input type="checkbox"/> Dye laser
<input type="checkbox"/>	<input type="checkbox"/> Use of cryogenics
<input type="checkbox"/>	<input type="checkbox"/> Use of compressed gases
<input type="checkbox"/>	<input type="checkbox"/> Ionizing radiation hazard
<input type="checkbox"/>	<input type="checkbox"/> Magnet hazard
<input type="checkbox"/>	<input type="checkbox"/> Plasma hazard
<input type="checkbox"/>	<input type="checkbox"/> Robotics used
<input type="checkbox"/>	<input type="checkbox"/> High Noise hazard
<input type="checkbox"/>	<input type="checkbox"/> Used for machining