



### LASER REGISTRATION FORM

Your Name \_\_\_\_\_ Date \_\_\_\_\_

Fermilab Contact Person \_\_\_\_\_ Phone Ext. \_\_\_\_\_

Laser Owner:  Fermilab, Division/Section \_\_\_\_\_

Other, Name \_\_\_\_\_

Expected Dates of Operation: Start \_\_\_\_\_ Stop \_\_\_\_\_

Intended Use(s) of Laser \_\_\_\_\_

Intended Use Location(s) of Laser \_\_\_\_\_

#### LASER SPECIFICATIONS

Manufacturer \_\_\_\_\_ Model \_\_\_\_\_

Serial Number \_\_\_\_\_ FNAL Number \_\_\_\_\_

Lasing Medium \_\_\_\_\_

Manufacturer's hazard classification:  3b  4

Wavelength ( $\lambda$ ) \_\_\_\_\_ [ ]nm [ ] $\mu$ m [ ]mm Specify all wavelengths or range.

#### Emergent beam characteristics

Diameter (a) \_\_\_\_\_ [ ]mm [ ]cm If not circular, specify dimensions.

Divergence ( $\phi$ ) \_\_\_\_\_ [ ]mrad [ ] $^{\circ}$

#### For continuous wave (CW) lasers only

Radiant power ( $\Phi$ ) \_\_\_\_\_ [ ]nW [ ] $\mu$ W [ ]mW [ ]W [ ]kW

Irradiance (E) \_\_\_\_\_ [ ] $\mu$ W/cm<sup>2</sup> [ ]mW/cm<sup>2</sup> [ ]W/cm<sup>2</sup> [ ]kW/cm<sup>2</sup>  
[ ] $\mu$ W/mm<sup>2</sup> [ ]mW/mm<sup>2</sup> [ ]W/mm<sup>2</sup>

#### For pulse wave (PW) lasers only

Radiant energy (Q) \_\_\_\_\_ [ ] $\mu$ J [ ]mJ [ ]J [ ]kJ

Radiant energy/pulse (E) \_\_\_\_\_ [ ] $\mu$ J/cm<sup>2</sup> [ ]mJ/cm<sup>2</sup> [ ]J/cm<sup>2</sup> [ ]kJ/cm<sup>2</sup>  
[ ] $\mu$ J/mm<sup>2</sup> [ ]mJ/mm<sup>2</sup> [ ]J/mm<sup>2</sup>

Single pulse duration (t) \_\_\_\_\_ [ ]ps [ ]ns [ ] $\mu$ s [ ]ms [ ]s

Pulse repetition frequency (F) \_\_\_\_\_ [ ]mHz [ ]Hz [ ]kHz [ ]MHz

#### For rotating beam lasers only

Rotation rate (S) \_\_\_\_\_ [ ]rpm [ ]rps

Min eye-axis distance ( $r_{min}$ ) \_\_\_\_\_ [ ]cm [ ]in [ ]ft [ ]m

Copies to: LSO @ MS119, Division/Section ES&H Group, Fermilab Contact Person

#### FOR ES&H SECTION ONLY

Application hazard classification:  1  2 [ ]3a [ ]3b [ ]4

Optical Density: \_\_\_\_\_