Print Form

Fermilab

# LASER REGISTRATION FORM

Name | Date | Laser ID (Leave Blank)

Fermilab Contact Person | Phone Ext.

Laser Owner | Other (enter 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 Hazard Classification ◯ 3b ◯ 4

Wavelength(s) (λ) ◯ nm ◯ μm ◯ mm Specify all wavelengths or range.

### Emergent beam characteristics

Diameter (a) ◯ mm ◯ cm If not circular, specify dimensions

Divergence (φ) ◯ mrad ◯ o

### For continuous wave (CW) lasers

Radiant power (Φ) ◯ nW ◯ μW ◯ mW ◯ W ◯ kW

Irradiance (E) ◯ μW/cm2 ◯ mW/cm2 ◯ W/cm2 ◯ kW/cm2 ◯ μW/mm2 ◯ mW/mm2 ◯ W/mm2

### For pulse wave (PW) lasers

Radiant Energy (Q) ◯ μJ ◯ mJ ◯ J ◯ kJ

Radiant energy/pulse (H) ◯ μJ/cm2 ◯ mJ/cm2 ◯ J/cm2 ◯ kJ/cm2 ◯ μJ/mm2 ◯ mJ/mm2 ◯ J/mm2

Single pulse duration (t) ◯ ps ◯ ns ◯ μs ◯ ms ◯ s Single pulse frequency (F) ◯ mHz ◯ Hz ◯ kHz ◯ MHz ◯ GHz

Bunch/Group duration (t) ◯ ps ◯ ns ◯ μs ◯ ms ◯ s Bunch/Group frequency (F) ◯ mHz ◯ Hz ◯ kHz ◯ MHz ◯ GHz

### For rotating beam lasers only

Rotation rate (S) ◯ rpm ◯ rps

Min eye-axis distance ($r_{min}$) ◯ cm ◯ in ◯ ft ◯ m

**Notes**

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

FOR ES&H SECTION ONLY

Application Hazard Classification | Optical Density

NSG Duel Use ◯ Yes ◯ No

Rev. January 2019