

# 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) ( $\lambda$ )   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**

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**

Radiant Energy (Q)    $\mu$ J  mJ  J  kJ

Radiant energy/pulse (H)    $\mu$ 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 Single pulse frequency (F)   MHz  Hz  kHz  MHz  GHz

Bunch/Group duration (t)   ps  ns   $\mu$ s  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<sub>min</sub>)  cm  in  ft  m

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

## **FOR ES&H SECTION ONLY**

Application Hazard Classification  Optical Density

NSG Dual Use  Yes  No

## **Notes**