

CLASS 3B AND/OR CLASS 4 LASER REGISTRATION FORM

Principal investigator:	Date:
Department:	
Phone number:	Email:
Lab. contact:	Email:
1- PERSONNEL WHO USE LASER SYSTEMS	
Name & last name	AU affiliation (student or staff)
2- LASER SYSTEM INFORMATION	
System location (building & room #):	
Manufacturer:	
Model:	
Serial number:	
Class (3B or 4):	
Type (i.e., Argon-ion, He-Ne, CO2, Nd:YAG):	
Mode of operation : Continuous Wave (CW), Single Pulse, Repetitive Pulse (more than one might apply)	
Beam diameter at aperture (mm):	
Beam divergence (mrad):	
3- LASER PARAMETERS	
Continuous Wave Laser Information	
Wavelength(s) (micron or nanometer):	
Average power (Watts):	
Energy of the exposure (Joules):	

Single Pulse Laser Information			
Wavelength(s) (micron or nanometer):			
Energy per pulse (Joules):			
Peak power (Watts):			
Duration of the laser pulse (seconds):			
Repetitive Pulse Laser Information			
Wavelength(s) (micron or nanometer):			
Energy per pulse (Joules):			
Peak power (Watts):			
Average power (Watts):			
Duration for one pulse of the pulse train (seconds):			
Pulse repetition frequency (Hertz): (Frequency of repetitive pulse laser)			
Total exposure duration (seconds): (The total time that a user might be exposed to the laser output. If not known, ANSI default exposure durations will be used)			
Check all items that apply:			
Use of Cryogenics	<input type="checkbox"/>	Invisible Beam	<input type="checkbox"/>
Use of Compressed Gases	<input type="checkbox"/>	Direct Viewing of the Laser Beam	<input type="checkbox"/>
High Noise Levels	<input type="checkbox"/>	Beam Focusing Optics	<input type="checkbox"/>
High Voltage Power Supplies	<input type="checkbox"/>	Fiber Optics (Single or Multiple Mode Fiber)	<input type="checkbox"/>
High Voltage (>30 kVp)	<input type="checkbox"/>	Exposed Beam Paths	<input type="checkbox"/>
Dye Laser	<input type="checkbox"/>	Frequency Doubling Crystal	<input type="checkbox"/>
Tunable Laser	<input type="checkbox"/>	Laser Cutting / Welding	<input type="checkbox"/>
Is the laser(s) modified? Does the modifications warrant defeat of engineering safeguards? Is this a research laser under construction and engineering safeguards and/or interlocks are not utilized? COMMENTS:			
Purpose of laser use (i.e. holography, alignment, spectroscopy, surgery, veterinary use, etc.), provide sufficient detail:			