Application for Use of Class IIIB and IV Laser Authorization

Instructions

Class 3b and 4 lasers, laser systems, and embedded lasers (a laser with a higher class than the laser system) must be registered with the Radiation Safety Office. All Authorized Users (AU) must be approved and authorized by the Radiation and Laser Safety Committee prior to using Class 3b and 4 lasers. Additionally, prior approval for procurement and installation of 3b and 4 lasers and laser systems must be obtained from the Radiation Safety Office.

The application involves items that are required to be completed before the application will be presented for the Radiation and Laser Safety Committee's review and approval. Complete this application form and submit to the Radiation Safety Officer (RSO). It is very important for the AU to ensure all required items are addressed to avoid delays; approval for use and request to purchase any additional lasers will not be granted until the application is approved by the Radiation and Laser Safety Committee.

A standard operating procedure (SOP) is required as part of the application process. A facility evaluation will be performed during the application review process to ensure proposed research can be conducted safely. Engineering controls will be evaluated post installation to verify that special safety features for the facility meet current requirements. Training requirements for the AUs and all Laser Users (LU) are part of the application review process and should be completed as early as possible.

Authorization Information (to be completed by the Principal Authorized User)

1.	AU/ Supervisor:		
2.	Phone:	E-mail:	
3.	Emergency Contact:		Phone:
4.	Department:		
5.	Building/ Office #:		
6.	Lab Location:		
7.	Department Chair:		
8.	Purpose or Intended Use:		

9. Laser(s) Description: Use additional page if necessary Manufacturer Model Serial # Laser Class Lasing Medium (HeNe, Argon, etc.) Wavelength (nm) Maximum Power /Energy (W, J, etc.) Output Description (CW, pulse, etc.) Nominal Hazard Zone Manufacturer Model Serial # **Laser Class** Lasing Medium (HeNe, Argon, etc.) Wavelength (nm) Power (W, J, etc.) Output Description (CW, pulse, etc.) Nominal Hazard Zone Manufacturer Model Serial # Laser Class Lasing Medium (HeNe, Argon, etc.) Wavelength (nm) Power (W, J, etc.) Output Description (CW, pulse, etc.)

Nominal Hazard Zone

10. Laser Control Measures

Access Control/Hazard Warning Signs & Device Labels

Yes	No					
		Posted entrances (provided by the Radiation Safety Office)				
		Laser access control/device security				
		Control Area (nominal hazard zone) established				
		Warning label on device				
		Laser class label in place				
		Laser hazard label in place				
		Laser aperture label in place				
Admin	istrativ	ve Controls				
Yes	No					
		Standard Operating Procedures/Emergency procedures				
		Emergency contacts posted				
		Alignment procedures				
		Personnel authorization				
		Eye protection				
		Skin protection				
Engin	Engineering Controls/ Room Design/ Safety Controls					
Yes	No					
		Enclosed beam				
		Protective housing				
		Protective housing interlock				

		Service panel interlocks				
		Door/Laser curtain interlock				
		Key/Lock control				
		Beam Stop/Attenuator				
		Activation warning system/Laser light				
		Windows/doorways covered				
		Reflective materials removed				
		Limited access to spectators/visitors				
		Laser secured to table or other work surface				
		Beam intensity reduced or filtration in place				
		No Laser beam at eye level				
Non-B	Non-Beam Hazards Yes No					
. 65						
		Laser generated airborne contaminants				
		Fire hazard				
		Explosive hazard				
		Compressed gases in use				
		Laser dyes in use				
		Cryogens in use				
If yes,	explain	and include safety plans/measures here (use additional sheet as required):				

11.	Pro	ovide the following specific information (use additional sheet as required):		
a) Summary of Laser procedures.				
	b)	Procedures for alignment, maintenance, and/or service, including procedures for the bypass of safety interlocks (additional requirements apply for clinical use lasers).		
	c)	Description of planned equipment modifications or updates to the system.		
12.		ummary of AU's training and experience with lasers including institution, courses ken, duration, etc.		

13. Important notes:

a) Certification of training must be documented for all users to operate or maintain the laser system.

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- b) This application is strictly for non-human use only. Laser use on humans under the scope of this authorization is prohibited. (Indicate if clinical use laser is involved)
- c) Any actual or suspected exposure must be reported to the RSO immediately.
- d) Modifications and repairs to laser devices/system that could affect the beam quality (excluding routine beam alignment) must be reported to and receive prior approval from the RSO before the device is put back to use.
- e) Notify the RSO when the status of device is changed from "Active" to "Inactive" and vice versa.
- f) Notify the RSO prior to laboratory close-out, relocation, and/or transfer of laser device to another AU(s), including transfer out of the University, or disposal of a laser. AUs leaving the University must notify the RSO at least 2 weeks prior departure.
- g) Notify the RSO before addition of a Laser User. Privileges of departing Laser Users should be suspended immediately and communicated to the RSO.
- h) It is recommended that a log be maintained to document the specific personnel and date/time that the equipment is being used.

^{*} Laser Users must have read the Laser Safety Manual and must verify by signing their initials.

^{*} Laser Users must have received specific laser safety training for laser hazards in their labs from their AU and must verify by signing their initials.

^{*} Laser Users must have attended and passed the URI Laser Safety Training must verify by signing their initials. (Other Laser Users may be added later by amendment after completing these requirements)

	tch of the room and the proposed locatio Use additional pages if necessary.	n of the laser.	Identify the laser
CERTIFICATION			
I certify that the i best of my knowl	information contained herein and attache edge.	ed hereto is true	e and correct to the
Date:	AU Signature:		