4505 Maryland Parkway, Las Vegas, NV 89154: MS 1042:

Phone: 7028954226:

Fax: 7028954690

University of Nevada, Las Vegas Laser Safety Program Standard Operating Procedure

	Principle Investigator	Date
	Department/Division	Building and Room Number
	Laser Manufacturer / Model	Laser Serial Number
1.	Laser Safety Contacts	
	University Laser Safety Officer:	Phone:

2. Laser Description

Attach latest laser system description. This includes the laser type, intended application (brief description), wavelength, output beam diameter and beam divergence. For continuous wave (CW) lasers include the average power; for pulsed lasers include the energy per pulse, pulse duration, and repetition rate.

Laser Vendor / Maintenance: ______ Phone: _____

Medical Emergency: ______ Phone: _____

3. Laser Safety Protocols

Briefly describe each of the following as they pertain to safety pre-requisites

- a) Responsibilities of the laser operator(s)
- b) Training requirements specific to the laser system in question
- c) Verification of laser registration with Radiation Safety Office
- d) Sign and labeling requirements
- e) Personnel Protective Equipment requirements

4. Operating Procedures

Briefly describe each of the following as they pertain to normal laser operation:

- a) Initial preparation of laboratory environment for normal operation (key location, status indicators, interlock activation, posting of warning signs, sufficient and appropriate PPE available, etc.)
- b) Target area preparation
- c) Special Procedures (beam alignment, maintenance, etc.)

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- d) Operational Settings (power, Q-switch mode, pulse rate, etc.)
- e) Shutdown procedures

5. Control Measures

Laser/Laser System Control Measures			
Check if Applicable	Control	Comments	
	Entryway (door) Interlocks or Controls		
	Laser Enclosure Interlocks		
	Emergency Stop/Panic Button		
	Master Switch (operated by key or code)		
	Laser Secured to Base		
	Beam Stops/Beam Attenuators		
	Protective Barriers		
	Warning Signs		
	Reference to Equipment Manual		
	Sufficient Eyewear Available		
	Appropriate Eyewear Available		
	Other		
Additional	Comments:		

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Unenclosed beam/Access direct or scattered radiation Laser at eye level of personsitting or standing Ultraviolet Radiation Reflective Material in Beam Path Hazardous Materials/Was (dyes, solvents, etc.) Fumes/Vapors Electrical	on on
sitting or standing Ultraviolet Radiation Reflective Material in Beam Path Hazardous Materials/Was (dyes, solvents, etc.) Fumes/Vapors Electrical	
Reflective Material in Beam Path Hazardous Materials/Was (dyes, solvents, etc.) Fumes/Vapors Electrical	ste
Beam Path Hazardous Materials/Was (dyes, solvents, etc.) Fumes/Vapors Electrical	ste
(dyes, solvents, etc.) Fumes/Vapors Electrical	ste
Electrical	
Capacitors	
Compressed Gases	
Fire	
Housekeeping	
Tripping Hazards	
Tripping Hazards dditional Comments:	

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6. Personnel Protective Equipment

Eyewear

LASER EYEWEAR					
For This Laser		Wear This Eyewear			
Serial No.	Туре	Wavelength(s) (nm)	Wavelength(s) attenuated (nm)	Optical Density (OD)	Notes
Example 1	Nd:YAG	1064, 532	1064, 532	5+	UVEX / Orange

b)	Other Protective Equipment Requ	ired within Nominal Hazard Zone
ITEM	Location	Usage Condition(s)

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Operator Review

I have read this and understood this Standard Operating Procedure, and agree to adhere to the protocols outlined above.

Name (print)	Signature	Date

The Principal Investigator is required to keep each laser SOP on file in the laboratory. A copy of this SOP must be transmitted to the Radiation Safety Office.

> **FAX number**: (702) 895-4690 Office: Campus Services Buildings, Room 119D Campus Mail: Laser Safety Officer Risk Management and Safety, Radiation Safety Office

Issued: