Laser Safety Manual

Table of Contents

pulse visible or near IR class 3B lasers with ultra-short pulses can produce diffuse reflection hazards at more than a meter from the surface. Eye protection may be needed while the laser is operating.

Direct Intrabeam exposure.

Diffuse Reflection.

F. UV Radiation- Laser discharge tubes and pumping tubes may emit

2.

¶ **Access restriction (see**

5. **Barriers, Enclosures, and Beam Stops-** Beam barriers, enclosures, and stops are used to prevent beam propagation outside of the controlled access area in excess of the MPE. It is always desirable to enclose as much of the beam path as possible. As with a protective housing, the proper enclosure of the entire beam path may change the laser system to a Class 1 laser. When the beam needs to be directed to another area such as between optical tables, enclosure of the beam is

of laser protective eyewear is especial

4. **Other Ocular Damage-** There are two transition zones between corneal hazard and retinal hazard spectral regions.

5. Conduct and/or

APPENDIX A

Joule: A unit of energy (J). 1 Joule=1 watt x second.

Laser: