



Control Measures for the Four Laser Classes

| Control Measure | Classification | | | | |
|--|---------------------|-------|-------------------|-------|-------|
| | 1 | 2 | 3a | 3b | 4 |
| Administrative and procedural Controls | 1 | 2 | 3a | 3b | 4 |
| Standard Operating Procedures (4.4.1) | - | - | - | • | ♦ |
| Output Emission Limitations (4.4.2) | - | - | LSO Determination | | |
| Education and Training (4.4.3) | - | • | • | ♦ | ♦ |
| Authorized Personnel (4.4.4) | - | - | - | ♦ | ♦ |
| Alignment Procedures (4.4.5) | - | ♦ | ♦ | ♦ | ♦ |
| Protective Equipment (4.6) | - | - | - | • | ♦ |
| Spectator (4.4.6) | - | - | - | • | ♦ |
| Service Personnel (4.4.7) | Δ MPE | Δ MPE | Δ MPE | ♦ | ♦ |
| Demonstration with General Public (4.5.1) | MPE~ | ♦ | ♦ | ♦ | ♦ |
| Laser Optical Fiber Systems (4.5.2) | MPE | MPE | MPE | ♦ | ♦ |
| Laser Robotic Installations (4.5.3) | - | - | - | ♦ NHZ | ♦ NHZ |
| Eye Protection (4.6.2) | - | - | - | • MPE | ♦ MPE |
| Protective Windows (4.6.6) | - | - | - | • NHZ | ♦ NHZ |
| Protective Barriers and Curtains (4.6.4) | - | - | - | • | • |
| Skin Protection (4.6.6) | - | - | - | ♦ MPE | ♦ MPE |
| Other Protective Equipment (4.6.7) | Use may be required | | | | |
| Warning Signs and Labels (4.7) (Design Requirements) | - | • | • | ♦ | ♦ |
| Service and Repairs (4.4.7) | LSO Determination | | | | |
| Modification and Laser Systems (4.1.2) | LSO Determination | | | | |

♦ - Shall

• - Should

-- No requirement

Δ - Shall if enclosed Class 3b or Class 4

MPE - Shall if MPE is exceeded

NHZ - Nominal Hazard Zone analysis required

~ - Applicable only to UV and IR Lasers (4.5.1.2)

Updated on 12/02/2015