|  |  |
| --- | --- |
| **Permit Holder:** | **Contact Person(s):** |
| **Department:** | **Date/Time:** | **Contact Extension:** |
| **General Information** | **ANSI Reference** |
| Location of Laser: | 1.3.2.2, 1.3.2.7, 1.3.2.8, 3.4 |
| Manufacture:  | Model: |  |
| Hazard Class: **3B 4 Unknown** | Serial Number: | 1.3.2.1 |

|  |  |  |
| --- | --- | --- |
| **Administration** | **Comments** | **Reference** |
| 1. Lasers are classified appropriately (2, 3R, 3B, 4)  | **Y** | **N** | **N/A** |  | 1.3.2.1 |
| 2. Standard operating procedures are available  | **Y** | **N** | **N/A** | 4.4.1 |
| 3. Alignment procedures are available | **Y** | **N** | **N/A** | 4.4.5, 4.4.1 (4) |
| 4. Viewing cards are used for alignment  | **Y** | **N** | **N/A** |  |
| 5. Laser users attended appropriate training  | **Y** | **N** | **N/A** | 4.4.3, 4.4.4 |
| 6. Lasers are included in inventory  | **Y** | **N** | **N/A** | 1.3.2.7 |
| **Labeling and Posting** – ANSI Z136.1 -2007 (Table 11a,b,c) | **Comments** | **Reference** |
| 7. Certification label present  | **Y** | **N** | **N/A** |  |  |
| 8. Class designation and appropriate warning label present  | **Y** | **N** | **N/A** | 4.3.14, 4.7 |
| 9. Radiation output information on label  | **Y** | **N** | **N/A** | 4.3.14, 4.7 |
| 10. Aperture label present  | **Y** | **N** | **N/A** | 4.7 |
| 11. Appropriate warning/danger sign at entrance to laser area  | **Y** | **N** | **N/A** | 4.3.9 |
| 12. Warning posted for invisible radiation  | **Y** | **N** | **N/A** | 4.3.9 |
| **Personal Protective Equipment** | **Comments** | **Reference** |
| 13. Eye protection is appropriate for wavelength  | **Y** | **N** | **N/A** |  | 4.6.2 |
| 14. Eye protection has adequate OD  | **Y** | **N** | **N/A** |
| 15. Warning lights viewable through protective filters  | **Y** | **N** | **N/A** | 4.3.9.4.2 |
| **Control Measures – ANSI Z136.1 -2007 (Table 10)** | **Comments** | **Reference** |
| 16. Protective housing present and in good condition  | **Y** | **N** | **N/A** |  | 4.3.1 |
| 17. Beam attenuator present  | **Y** | **N** | **N/A** | 4.3.8 |
| 18. Laser table below eye level  | **Y** | **N** | **N/A** |  |
| 19. Beam is enclosed as much as possible  | **Y** | **N** | **N/A** | 4.3.6 |
| 20. Beam not directed toward doors or windows  | **Y** | **N** | **N/A** |  |
| 21. Beams are terminated with fire-resistant beam stops  | **Y** | **N** | **N/A** |  |
| 22. Surfaces minimize specular reflections  | **Y** | **N** | **N/A** |  |
| 23. Controls are located so that the operator is not exposed to beam hazards  | **Y** | **N** | **N/A** |  |
| 24. **Class 3b/4:** Interlocks on protective housing  | **Y** | **N** | **N/A** | 4.3.2 |
| 25. **Class 3b/4:** Service access panel present  | **Y** | **N** | **N/A** | 4.3.3 |
| 26. **Class 3b/4:** Limited access to spectators  | **Y** | **N** | **N/A** | 4.3.6 |
| 27. **Class 3b/4:** Nominal hazard zone determined  | **Y** | **N** | **N/A** |  |
| 28. **Class 3b/4:** Operators do not wear watches/ jewelry  | **Y** | **N** | **N/A** |  |
| 29. **Class 3b/4:** Viewing portals present where MPE is exceeded  | **Y** | **N** | **N/A** | 4.3.5.1 |
| 30. **Class 4:** Failsafe interlocks at entry to controlled area  | **Y** | **N** | **N/A** | 4.3.10.2 |
| 31. **Class 4:** Area restricted to authorized personnel  | **Y** | **N** | **N/A** |
| 32. **Class 4:** Laser may be fired remotely  | **Y** | **N** | **N/A** |
| 33. **Class 4:** If present, curtains are fire-resistant  | **Y** | **N** | **N/A** |
| 34. **Class 4:** Area designed to allow rapid emergency egress  | **Y** | **N** | **N/A** |
| 35. **Class 4:** Pulsed- interlocks designed to prevent firing of the laser by dumping the stored energy into a dummy load  | **Y** | **N** | **N/A** |
| 36. **Class 4:** CW- interlocks designed to turn off power supply or interrupt the beam by means of shutters  | **Y** | **N** | **N/A** |
| 37. **Class 4:** Operators know not to wear ties around the laser  | **Y** | **N** | **N/A** |
| **Non-Beam Hazards** – ANSI Z136.1 -2007 (7.2) | **Comments** | **Reference** |
| 38. High voltage equipment appropriately grounded  | **Y** | **N** | **N/A** |  | 7.2 |
| 39. High voltage equipment located away from wet surfaces or water sources  | **Y** | **N** | **N/A** |
| 40. High voltage warning label in place  | **Y** | **N** | **N/A** |
| 41. Compressed gases secured | **Y** | **N** | **N/A** | 7.3.2 |

*Laser Safety Officer will fill out the Safety Inspection Follow-Up Sheet based on Inspection Form*