|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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*