**Laboratory Information:**

|  |  |  |  |
| --- | --- | --- | --- |
| Laboratory PI Name: |  | Date: |  |
| Building & Room #: |  | Department: |  |
| Inspection Attendees: |  | Permit #: |  |

**Laser Description & Parameters:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Make: | Model: | Serial Number: | λ (nm): | Power (W): | CW or Pulsed | Duration (ns) | Rep Rate (Hz) |
|  |  |  |  |  |  |  |  |
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**Laser Lab Posting & Security:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Item:** | **C** | **NC** | **NA** | **Comments** |
| 1 | Laser Warning Signs Posted |  |  |  |  |
| 2 | Lab security adequate (describe) |  |  |  |  |
| 3 | Entry interlock installed / functioning |  |  |  |  |
| 4 | Laser indicator outside room |  |  |  |  |
| 5 | Windows in room covered / filtered |  |  |  |  |
| 6 | Entry Barrier / Curtain installed |  |  |  |  |
| 7 | Barriers / Curtains meet Fire Safety Code |  |  |  |  |
| 8 | Emergency contact list posted |  |  |  |  |
| 9 | Laser safety guidelines posted |  |  |  |  |
| 10 | Outdoor / Public Laser Safety Controls |  |  |  |  |

**Laser Device Safety Controls:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Item:** | **C** | **NC** | **NA** | **Comments** |
| 11 | Laser Cert/ID label in place |  |  |  |  |
| 12 | Laser haz-class label in place |  |  |  |  |
| 13 | Laser aperture label in place |  |  |  |  |
| 14 | Protective housing in place |  |  |  |  |
| 15 | Interlock on housing functioning |  |  |  |  |
| 16 | Beam shutter present |  |  |  |  |
| 17 | Key operation |  |  |  |  |
| 18 | Remote interlock connector |  |  |  |  |
| 19 | Beam "On" remote indicator (+delay) |  |  |  |  |
| 20 | Beam output meter |  |  |  |  |
| 21 | Emergency shutoff available |  |  |  |  |
| 22 | Mfg / Mod device Classification complete |  |  |  |  |

**Engineering Safety Controls:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Item:** | **C** | **NC** | **NA** | **Comments** |
| 23 | Laser secured to table |  |  |  |  |
| 24 | Optics secured to prevent stray beams |  |  |  |  |
| 25 | Beam not at eye level |  |  |  |  |
| 26 | Beam is enclosed |  |  |  |  |
| 27 | Beam barriers in place |  |  |  |  |
| 28 | Beam stops in place |  |  |  |  |
| 29 | Remote viewing of beam |  |  |  |  |
| 30 | Beam condensed or enlarged |  |  |  |  |
| 31 | Beam focused |  |  |  |  |
| 32 | Beam intensity reduced through filtration |  |  |  |  |
| 33 | Fiber optics used |  |  |  |  |
| 34 | Reflective materials not in beam path |  |  |  |  |
| 35 | Users checking for stray beams |  |  |  |  |
| 36 | Stray beams marks / burns |  |  |  |  |
| 37 | Class 4 diffuse reflection hazard |  |  |  |  |

**Administrative Safety Controls:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Item:** | **C** | **NC** | **NA** | **Comments** |
| 38 | Laser Permit complete |  |  |  |  |
| 39 | Laser device registered |  |  |  |  |
| 40 | Laser SOP Adequate |  |  |  |  |
| 41 | Alignment SOP Adequate |  |  |  |  |
| 42 | \*\*\*Placeholder |  |  |  |  |
| 43 | Viewing Cards Used |  |  |  |  |
| 44 | Multiple Wavelength safety addressed |  |  |  |  |
| 45 | Laser training requirement met |  |  |  |  |
| 46 | Laser eye exam requirement met |  |  |  |  |
| 47 | Laser Service Controls |  |  |  |  |
| 48 | Spectator Controls |  |  |  |  |
| 49 | Upward directed beams labeled |  |  |  |  |
| 50 | Hazard Labels on barriers / enclosures |  |  |  |  |

**Personal Protective Equipment:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Item:** | **C** | **NC** | **NA** | **Comments** |
| 51 | Appropriate laser eye protection available |  |  |  |  |
| 52 | Laser eye protection in good condition. |  |  |  |  |
| 53 | Warning lamps visible through eyewear |  |  |  |  |
| 54 | Proper skin protection available |  |  |  |  |
| 55 | Eyewear Labeled with OD and Wavelength |  |  |  |  |
| 56 | \*\*\*Placeholder |  |  |  |  |
| 57 | \*\*\*Placeholder |  |  |  |  |
| 58 | \*\*\*Placeholder |  |  |  |  |
| 59 | \*\*\*Placeholder |  |  |  |  |

**Non-Beam Hazards:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Item:** | **C** | **NC** | **NA** | **Comments** |
| 61 | General Housekeeping |  |  |  |  |
| 62 | Toxic laser media in use |  |  |  |  |
| 63 | Hazardous laser media stored properly |  |  |  |  |
| 64 | Fume hood for dye mixing |  |  |  |  |
| 65 | Cryogens in use |  |  |  |  |
| 66 | Compressed gas in use |  |  |  |  |
| 67 | Gas cylinders restrained |  |  |  |  |
| 68 | V belts, pulleys, fans guarded |  |  |  |  |
| 69 | High voltage power hazard |  |  |  |  |
| 70 | Electrical panels unobstructed |  |  |  |  |
| 71 | Optical tables properly grounded |  |  |  |  |
| 72 | Collateral or plasma radiation |  |  |  |  |
| 73 | Induced Ionizing Radiation |  |  |  |  |
| 74 | Explosion hazard |  |  |  |  |
| 75 | Fire hazard |  |  |  |  |
| 76 | Air Contaminants production |  |  |  |  |
| 77 | Live animal exposure (review complete) |  |  |  |  |
| 78 | Biological materials (review complete) |  |  |  |  |
| 79 | Electrical Cords and Receptacles |  |  |  |  |
| 80 | Other |  |  |  |  |

**Comments/Discrepancies/Action Items:**

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