

Laser Lab Inspection Checklist

Building/Room: \_\_\_\_\_ Authorized User: \_\_\_\_\_

Inspection #: \_\_\_\_\_

**Inspection Detail**

**General Questions for Laser Labs**

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| <b>1</b> | <b>Inspection Item:</b> This inspection is | <b>Result:</b> |
|          | <b>Item Details:</b>                       |                |
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| <b>2</b> | <b>Inspection Item:</b> Laser Users List Verified by Laser Supervisor? | <b>Result:</b> |
|          | <b>Item Details:</b>   |                |
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|----------|---|----------------|
| <b>3</b> | <b>Inspection Item:</b> Laser Supervisor and Laser Users have completed online GT Laser Safety Training | <b>Result:</b> |
|          | <b>Item Details:</b>  |                |
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| <b>4</b> | <b>Inspection Item:</b> Laser Supervisor and Laser Users have submitted form LU-1, Laser User Registration | <b>Result:</b> |
|          | <b>Item Details:</b>   |                |
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| <b>5</b> | <b>Inspection Item:</b> All non-Laser Users have completed online GT Laser Awareness Training | <b>Result:</b> |
|          | <b>Item Details:</b>  |                |
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| <b>6</b> | <b>Inspection Item:</b> Laser(s) operated only by registered Laser Supervisor or Laser Users | <b>Result:</b> |
|          | <b>Item Details:</b>   |                |
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| <b>7</b> | <b>Inspection Item:</b> Current format ANSI laser warning sign posted at all appropriate locations | <b>Result:</b> |
|          | <b>Item Details:</b>   |                |
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|----------|--|----------------|
| <b>8</b> | <b>Inspection Item:</b> All entryway laser warning signs include laser class, laser type, wavelength, and LEP OD | <b>Result:</b> |
|          | <b>Item Details:</b>   |                |
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|----------|---|----------------|
| <b>9</b> | <b>Inspection Item:</b> Presence of invisible wavelength(s) included on all laser warning signs | <b>Result:</b> |
|          | <b>Item Details:</b>  |                |

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- 10 **Inspection Item:** EHS emergency contact "Pink Card" is posted at lab entry with current information **Result:**
- Item Details:**
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- 11 **Inspection Item:** Viewing aids are used for alignment of invisible beams **Result:**
- Item Details:**
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- 12 **Inspection Item:** LEP is available prior to entry into laser controlled area. **Result:**
- Item Details:**
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- 13 **Inspection Item:** Are spectators/visitors allowed in the lab during laser operation? **Result:**
- Item Details:**
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- 14 **Inspection Item:** If spectators are allowed in the laser lab, provide responses to the following questions. Each must be answered in the affirmative to be satisfactory. **Result:**
- Item Details:**
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|--------------------|---------------------|
| LS approved?       | Direct supervision? |
| Hazards explained? | LEP provided?       |
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- 15 **Inspection Item:** Have laser related injuries occurred? **Result:**
- Item Details:**
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- 16 **Inspection Item:** Laser related injuries reported to the LSO **Result:**
- Item Details:**
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- 17 **Inspection Item:** Windows within the NHZ are appropriately protected to prevent laser radiation above the MPE exiting the area **Result:**
- Item Details:**
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- 18 **Inspection Item:** Laser barriers or curtains are used to prevent laser radiation from exiting the laser controlled area **Result:**
- Item Details:**
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- 19 **Inspection Item:** A barrier prevents exposure of an individual entering the laser controlled area **Result:**
- Item Details:**
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- 20 **Inspection Item:** Gas cylinders are secured against tipping **Result:**
- Item Details:**

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21 **Inspection Item:** Applicable gas cylinders stored in a dangerous gas cabinet in accordance with the GT Dangerous Gas Program, Table 1 **Result:**

**Item Details:**

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22 **Inspection Item:** Have any lasers been surplused/disposed? Describe the disposal method. **Result:**

**Item Details:**

Laser(s) surplused?  
Returned to Vendor?

Picked up by GT Logistics?  
Sent to Re-Sale Vendor?

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23 **Inspection Item:** Laser Inventory Verified by Laser Supervisor? **Result:**

**Item Details:**

**Questions for Class 3B and 4 Lasers**

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24 **Inspection Item:** Laser Supervisor has submitted Form LR-1, Laser Registration to LSO for each laser **Result:**

**Item Details:**

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25 **Inspection Item:** Written SOP is available for laser(s) in use. **Result:**

**Item Details:**

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26 **Inspection Item:** Laser Users have received operational training by the Laser Supervisor or designee (indicated by the presence of the Laser User's signature on the **Result:**

**Item Details:**

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27 **Inspection Item:** Appropriate laser eye protection is available for laser(s) **Result:**

**Item Details:**

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28 **Inspection Item:** LEP (laser eye protection) is labeled with the protected wavelength and OD **Result:**

**Item Details:**

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29 **Inspection Item:** Is alignment eyewear used? **Result:**

**Item Details:**

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30 **Inspection Item:** If alignment eyewear is not already used, is it needed? **Result:**

**Item Details:**

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31 **Inspection Item:** Laser eye protection is undamaged or has only superficial damage that is not likely to impact the protection provided. **Result:**

**Item Details:**

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- 32 **Inspection Item:** Controls located so operator is not exposed to beam hazards **Result:**
- Item Details:**
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- 33 **Inspection Item:** Laser control panel has a light indicating laser emission **Result:**
- Item Details:**
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- 34 **Inspection Item:** Protective housing present and in good condition **Result:**
- Item Details:**
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- 35 **Inspection Item:** Laser classification label is present on laser(s) **Result:**
- Item Details:**
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- 36 **Inspection Item:** Laser classification label includes laser type, wavelength, maximum output, pulse duration (if applicable), and laser class **Result:**
- Item Details:**
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- 37 **Inspection Item:** Aperture label present on laser(s) **Result:**
- Item Details:**
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- 38 **Inspection Item:** Is a service panel present on the protective housing? **Result:**
- Item Details:**
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- 39 **Inspection Item:** If a service panel is present, the panel is interlocked or only removable with a tool **Result:**
- Item Details:**
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- 40 **Inspection Item:** If a service panel is not interlocked, a laser warning statement label is present on the service panel **Result:**
- Item Details:**
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- 41 **Inspection Item:** Are collecting optics used? **Result:**
- Item Details:**
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- 42 **Inspection Item:** If collecting optics are used, describe the optics. **Result:**
- Item Details:**  
Collecting optics description

43	<b>Inspection Item:</b> Interlocks prevent viewing of direct beam through collecting optics	<b>Result:</b>
	<b>Item Details:</b>	
44	<b>Inspection Item:</b> Are collecting optics used by the laser user to directly view laser light (i.e., no camera imaging)?	<b>Result:</b>
	<b>Item Details:</b>	
45	<b>Inspection Item:</b> Filters or attenuators are in place on collecting optics and labeled with OD and protected wavelength or LEP with proper OD for the wavelength is used when	<b>Result:</b>
	<b>Item Details:</b>	
46	<b>Inspection Item:</b> Describe the beam paths present	<b>Result:</b>
	<b>Item Details:</b>	
47	<b>Inspection Item:</b> Fiber optics	<b>Result:</b>
	<b>Item Details:</b>	
	Fiber used for transmission? "Hazardous Laser" label?	Exceed MPE when disconnected?
48	<b>Inspection Item:</b> Skin protection available for open beam UV laser(s) use	<b>Result:</b>
	<b>Item Details:</b>	
49	<b>Inspection Item:</b> Laser generated air contaminants properly ventilated	<b>Result:</b>
	<b>Item Details:</b>	
50	<b>Inspection Item:</b> No watches or other reflective jewelry is worn by individuals operating the laser or working with the laser setup.	<b>Result:</b>
	<b>Item Details:</b>	
51	<b>Inspection Item:</b> Are any lasers used outdoors or projected outdoors?	<b>Result:</b>
	<b>Item Details:</b>	
52	<b>Inspection Item:</b> Outdoor lasers emitted into navigable airspace have been reported to and approved by the FAA	<b>Result:</b>
	<b>Item Details:</b>	

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53 **Inspection Item:** Indoor/Outdoor laser demonstrations have been reported to and acknowledged by the FDA. **Result:**

**Item Details:**

**Additional Questions for Class 4 Lasers**

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54 **Inspection Item:** Entryway controls for the Class 4 laser controlled area are **Result:**

**Item Details:**

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55 **Inspection Item:** Class 4 laser(s) operated under direct supervision of Laser Supervisor or Laser User **Result:**

**Item Details:**

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56 **Inspection Item:** Class 4 laser(s) are left operating with no one present **Result:**

**Item Details:**

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57 **Inspection Item:** A red warning light is present at the entry to a Class 4 laser controlled area(s) **Result:**

**Item Details:**

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58 **Inspection Item:** A clearly marked "Emergency Stop" is labeled for each Class 4 laser **Result:**

**Item Details:**

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59 **Inspection Item:** Barriers used for Class 4 lasers are rated for sufficient damage threshold and are flame retardant **Result:**

**Item Details:**

Barrier Manufacturer	Barrier Model
Barrier Damage Threshold	Barrier Test Duration

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60 **Inspection Item:** No evidence of un-controlled beams in lab with Class 4 laser (e.g., burns on walls, doors) **Result:**

**Item Details:**

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**Performed by:** \_\_\_\_\_

**Date:** \_\_\_\_\_