

# Laser Light Show Checklist (v1.0)

## Show Identifications

Name: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_  
Operator: \_\_\_\_\_

## Manufacturer Identifications

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Telephone: (\_\_\_\_\_) \_\_\_\_\_  
Email: \_\_\_\_\_  
Name and Title of responsible person: \_\_\_\_\_

## Equipment Labeling

Note all items must have a successful completion (checked) prior to system utilization

- Certification label for the projector is in place and visible including variance number?
- Certification label for the lightshow is in place and visible including variance number?
- Identification label for light show manufacturer is in place and visible?
- Aperture(s) label for the projector is in place and visible?
- Interlock labels (if applicable) are in place and visible?
- Warning labels are in place and visible?

## Equipment Checkout

Note all items must have a successful completion (checked) prior to system utilization

- Protective housing are in place and mechanically sound?
- Projector is securely mounted?
- With laser off. Beam shutters are operable and are in the closed position?
- Laser cannot be energized with out key and key removal terminates operation?
- Are all mirrors and beam targets (if used) in place, correctly aimed and securely mounted?
- With the shutter closed, energize the beam at the lowest possible power.
- Confirm that all emission indicators and emission delay are functioning properly

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## Alignment Checkout

Note all items must have a successful completion (checked) prior to system utilization. These checks must be performed with no audience present.

- Evacuate all but essential personnel from the facility.
- Make certain that you have visual control of the entire projection space (especially the audience space) from your operating position.
- Make sure the areas are adequately secured.
- Operate the laser at the lowest possible power, open the shutter and perform alignments.
- Perform a physical survey to confirm that all laser emissions (fans, beams etc.) are separated from the audience by the at least the minimum distances required.  
In general, a 3.0 meter vertical separation and a 2.5 meter horizontal separation from audience locations are required.
- Review proposed projections with venue management to be certain that the audience will not be permitted access to locations resulting in a violation of the minimum distances required.
- Operate the projector at the power required for the show, making sure that there are no spurious (stray) projections into unattended areas and that the required distance conditions are maintained.
- Determine (and set) and record the laser power levels in accordance with the levels reported in the Laser Light Show Report (Section 9).
- Confirm that all projectors and optics are rigidly secured and cannot be disturbed during subsequent setup operations or during the show itself.
- Check for the proper operation and setting of all devices related to safety including; beam blocks, scanning safeguards, and emergency beam stops.
- Maintain continuous surveillance of the projectors and all optics between the time of alignment and the start of the show to be certain that the alignment of the projectors and optics is not disturbed.

## Measurement / Parameter Checks

Note: all items must have a successful completion (checked) prior to system utilization. List the effects to be performed, the time durations, and power levels and measuring instrument used.

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Administrative Checks

Name and title of the person responsible for the safety at the show facility: \_\_\_\_\_

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List those agencies you have notified of the show: \_\_\_\_\_

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Attach a copy of the show notification(s).

Attach a plan and evaluation drawing showing the locations of all projectors, external optics, projections and audience.

**NOTE: Safety considerations mandate that you account for all specular reflections and that the operator have visual control of all projections at all times.**