

SSC-10 Update

Entertainment, Displays and Exhibitions

Jay Parkinson
SSC-10 Chair

February 28th, 2024

Z136.10

Title:

Safe use of lasers in Entertainment, Displays & Exhibitions

Scope:

This standard provides recommendations for the safe use of lasers and laser systems in entertainment, display and exhibitions that operate at wavelengths between 0.18 micron and 1 millimeter.

SSC-10 Membership

As of February 15th, 2024

Jay Parkinson (Chair)

Casey Stack (Vice-chair)

Roberta McHatton (Secretary)

Ken Barat

Martin Barraclough

William Burgess

Tori Chelini*

William Ertle

David Felinski

Brian Gonzalez

Michael Higlett

Irelan Inoshita Knox

Lyra Letourneau

Jeffrey Lodwick

Gregory Makhov

Roberta McHatton

Michael McKervey

Patrick Murphy

John O'Hagan

Ibrahim Ozcan

Daniel Palmerton

Randolph Paura

David Sliney

Paul Szajowski

Robert Thomas

Henry Tuttle

Trevor Wheatley

Sheldon Zimmerman

Tony Zmorenski

* Note New Members

Recruiting

- Word of mouth
- No other forms of active recruiting are currently used until 1st edition is published.

* Note New Members

Recent Activities

- 2023 - 2024
 - February 28th, 2023 - SSC-10 last in person meeting in Portland, OR.
 - Small groups continue to work on specific tasks. Key tasks include drafting or modifying text for:
 - Rotating Mirror Ball Calculations
 - Multi-Wavelength NOHD Calcs
 - Physical and Electronic Masking
 - Using Laser Eye Protection
 - Remote E-stop Requirements
 - Updating Document to Address Comments
 - High Power Laser Projectors
 - Outline Effects That Require Basic, Intermediate, Or Advanced Levels Of Hazard Analysis.

Emerging/Ongoing Topics

- Laser illuminated lighting instruments (LILIs)
 - Similar issues to laser illuminated image projectors.
 - Shorter hazard distances than conventional laser light shows.
 - Many have brightness levels similar to non-laser illuminated instruments.
 - Do not impact airspace at the same distances as conventional laser light show projectors.
 - Blue light hazards. Outside of the NOHD of an accidental or momentary exposure (0.25 s), brightness may not produce aversion response of audience that is looking into the beam.
- High Power laser projectors
 - Higher power projectors are becoming available that have output beams that are 100 W+. FDA is hoping Z136 can include guidance on these types of projectors.

Next SCDV

- Goal is to circulate SCDV-2 by 1st half of 2024.

QUESTIONS?