

Pyrotechnics, Flame Effects, and Laser Light Show Program



**ENVIRONMENTAL
HEALTH & SAFETY**
TEXAS A&M UNIVERSITY

General Information

This procedure outlines the guidelines for use of pyrotechnics, flame effects, and laser light shows at Texas A&M University. Any such use must comply with this procedure and all applicable state and federal regulations. Consumer fireworks are prohibited at Texas A&M University.

Applicability

This procedure applies to the use of any pyrotechnics, flame effects, or laser light shows on the campuses of Texas A&M University (including the Texas A&M Health Science Center) and Texas A&M University System RELLIS Campus. Any personnel utilizing any of these effects must possess applicable license(s) by the Texas State Fire Marshal or any personnel utilizing entertainment lasers must possess applicable license by the Texas State Fire Marshal. Any personnel utilizing entertainment lasers must register the lasers with Texas Department of State Health Services and provide appropriate FDA variance.

Definitions

1. **Entertainment Lasers** – Lasers used for stationary/mobile entertainment light shows
2. **Flame Effects** – The combustion of solids, liquids, or gasses utilizing atmospheric oxygen to produce thermal, physical, visual, or audible phenomena before an audience (NFPA 160)
3. **Laser Light Show** – Lasers used with other optical equipment to produce colorful, dramatic displays for entertainment purposes
3. **Pyrotechnics** – Controlled exothermic chemical reaction that are timed to create the effects of heat, gas, sound, dispersion of aerosols, emission of electromagnetic radiation, or a combination of these effects to provide the maximum effect from the least volume (NFPA 1126)
4. **Proximate Audience** – An audience closer to pyrotechnic devices than permitted by NFPA 1123 (NFPA 1126)
5. **Texas A&M University Campuses** – All facilities under the jurisdiction of TAMU AHJ; These include TAMU/TAMUS facilities in Burleson and Brazos County, all TAMU HSC Facilities, The Texas A&M University Law School in Ft. Worth, and the TAMU HEC McAllen

Responsibilities

Event Organizer

- Submit the attached application packet with appropriate attachments at least 14 days prior to the date of the event to Texas A&M University - Environmental Health and Safety. Include all supporting documents as defined by Texas A&M University Standard Administrative Procedure 24.01.04.M7.01. You may reference attachments A, B, or C as a guide when preparing the application packet.

Texas A&M University - EHS
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College Station, TX 77843-4472

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Environmental Health and Safety

- Review submitted applications, and if approved, issue a permit to the Event Organizer. Conduct site review, equipment inspection, and attend the permit event if necessary.

Selected Code References

The following is a summary of applicable NFPA Codes and Standards associated with flame effects, pyrotechnics, and entertainment lasers. This list is **not** intended to be an all-inclusive list but rather to provide a general guideline for flame effects, pyrotechnics, and entertainment lasers. Full NFPA codes and standards should be referenced for all requirements. For entertainment lasers, follow the requirements on Texas Administrative code TAC provided by Texas Department of State Health Services.

NFPA 1 – Fire Code

NFPA 101 – Life Safety Code

NFPA 160 – Standard for the Use of Flame Effects Before an Audience

NFPA 1124 – Code for the Manufacture, Transportation, Storage, and Retail Sale of Fireworks and Pyrotechnics

NFPA 1123 – Code for Fireworks Display

NFPA 1126 – Standard for the use of Pyrotechnics Before a Proximate Audience

Texas Occupations Code Chapter 2154 Regulation of Fireworks and Fireworks Displays and 28 TAC §§ 34.800 - The Fire Works Rules

Laser Rule-Texas Regulations for Control of Laser Radiation Hazards, 25TAC§289.301