

## DIVISION 26 - ELECTRICAL

### SECTION 26 55 00 – SPECIAL PURPOSE LIGHTING

#### PART 1: GENERAL

##### 1.01 Scope of Standards

- A. This standard provides general guidance concerning the specific preferences of Texas State University for Special Purpose Lighting.
- B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

##### 1.02 Types of Lights

- A. Outline Lighting
  1. Outline lighting (and all other forms) of decorative lighting shall be approved in writing by the University. In situations where approval is granted, decorative lighting shall be durable products with long life and low maintenance, such as LED.
  2. See Prohibited Lighting Products above.
  3. Light Controls: Refer to 26 50 00, PART 2, D.
- B. Underwater Lighting
  1. All lighting products specified for underwater installation shall be designed for the intended application. In addition, all such lighting shall comply with the following:
    - a. All fixtures shall be installed with flexible cord to allow fixture too be relocated to above water level for service without draining water feature.
    - b. All light sources shall be long lamp life products.
    - c. All light sources for underwater applications shall be controlled via an automatic time clock (or the equivalent control system) and programmed for the shortest operating time possible.
- C. Hazard Warning Lighting
  1. No STANDARDS this section.
- D. Obstruction Lighting
  1. Obstruction lighting, where required, shall be designed to comply with all applicable codes and standards. The design professional shall determine the need for obstruction lighting for all buildings, including requirements of the Federal Aviation Administration.

#### E. Security Lighting

1. All interior and exterior lighting shall be designed with a concern for security. Security includes concern for people and property.
2. Where possible, standard project lighting shall be designed to meet the objectives of security lighting. This will avoid fixtures designed for the specific purpose of providing security lighting levels.
3. Where security is critical, provide more than one light fixture in the area so a single lamp failure will not darken the entire area.
4. All fixtures for special purpose lighting shall be LED.

#### F. Display Lighting

1. Display lighting includes lighting for museums, other artwork, display cases (for trophies and similar memorabilia) and special architectural features. Locations for display lighting shall be designated by or approved the University.
2. Unless approved in writing by the University, display lighting shall be fixtures using fluorescent sources.
3. Where approved by the University, halogen lighting shall be medium bas PAR type lamps or MR16 lamps.
4. Display lighting using festoon lamps, low voltage bi-pin (except MR16 lamps) or other similar short life products shall be prohibited.
5. Lighting and controls for museums (or similar designated spaces) shall be designed to comply with the recommendations of IESNA RP-30, Museum and Art Gallery Lighting.

#### G. Theatrical Lighting

1. All lighting for theatrical requirements shall be designed to conform to recommendations of United States Institute for Theatre Technology (USITT).
2. All house and emergency lighting shall be coordinated with the theatrical lighting for design and control requirements.
3. A stand-alone switch shall be provided in the control booth to flash a portion of the lobby lighting to notify of curtain call. The portion of the fixtures shall be selected to adequately notify the audience without completely darkening the space. The flash feature shall not be designed to control emergency lighting.
4. All theatrical lighting shall be LED.

#### H. Detention Lighting

1. No STANDARDS this section.

#### I. Healthcare Lighting

1. Lighting and controls for healthcare related spaces shall be designed to comply with the recommendations of IESNA RP-29, LIGHTING FOR HOSPITALS AND HEALTH CARE FACILITIES.
2. Facilities most likely affected by this portion of the STANDARD are portions of the College of Health Professions.
3. All Healthcare Lighting shall be LED.

J. Audio Video Lighting Requirements

1. Spaces designed for presentation purposes using AUDIO/VIDEO equipment shall be designed in compliance with the applicable University STANDARDS, and as follows:
  - a. In spaces with ceiling mounted projectors, emergency lighting shall be controlled such that lighting can be completely turned off during functions requiring use of the projector. See section regarding EMERGENCY LIGHTING for generator transfer devices.
  - b. In spaces with projector screens, fixtures within 8 feet of the screen shall be switched independently of remaining fixtures to improve quality of the projected image.

K. Marker Board Lighting

1. All spaces with fixed, wall mounted marker boards (or equivalent writing surface) adequate lighting of the marker board shall be provide by one of the following:
  - a. Wall mounted light fixtures specifically designed for the purpose of lighting marker boards.
  - b. Ceiling mounting fixtures positioned to light the marker board.
  - c. Other lighting solutions approved in advance by the University.

**PART 2: PRODUCTS (NOT USED)**

**PART 3: EXECUTION (NOT USED)**

END OF SECTION 26 55 00