

CITY OF EAGAN

SPERRY TOWER LIGHTING POLICY

Introduction

The City of Eagan has erected a telecommunications tower for the purpose of serving City, County and private telecommunications antennas providing service within the Eagan area. The tower, referenced as the Sperry Tower, was also designed to be an aesthetic enhancement to the City's skyline. The aesthetics were addressed through the architectural design of the structure and the lighting features.

The lighting features on the telecommunications tower, per Council direction, have nearly limitless capabilities. There are a total of 118 lighting fixtures on the tower; 1 fixture per panel (10' high by 5' wide), 16 panels per ring, 6 rings on the tower, plus 16 fixtures for the crown (16 pieces, varying heights at 5' widths), and each of the three legs has 2 flood lights. The base of the panel rings are at 168', 150', 132', 114', 96', and 78' above the ground elevation with an option for a future seventh ring (at 60'). The top of the crown is 187' above the ground elevation. Each fixture on the ring panels (located at top) and crown pieces (located at bottom) has 48 individual LED light bulbs and is divided into 4 zones; each with their own IP address for control. Each flood light has 12 bulbs controlled by one IP address. A total of 5,448 light bulbs are controlled by 454 separate IP addresses from one controller. The LED light bulbs have an indefinite range of colors.

The purpose of the lighting policy is to enable the Sperry Tower to provide a safe, pleasant public art display through its lighting features for the enjoyment and benefit of the Eagan community. Incorporation of the tower lighting has been included as part of the City's Policy for Public Art and Installation in City Owned or Managed Spaces.

Lighting of the Sperry Tower shall be prioritized as follows:

- 1) In interest of the City of Eagan;
- 2) In interest of the Eagan community;
- 3) In interest of Eagan community members/representatives;
- 4) A greater common interest.

The management of the lighting by City staff is an additional responsibility not addressed by position responsibilities. Available lighting options offer a wide variety of associated responsibilities, from very little to a considerable amount, at times. The following policy guidelines consider the related workload impact of staff.

At full intensity with all lights on, approximately 8,000 watts of energy would be used at a cost of \$7 per day (2016). Anticipated lighting intensities and operating hours (10 minutes after sunset to midnight and 4:00 am to 10 minutes before sunrise each day) would expect an approximate cost of \$2.30 per day (19kW/day x \$0.1158/kW). The following policy guidelines consider the related energy consumption and cost.

Objective

The Sperry Tower lighting should principally contribute to the City of Eagan, further enhancing it with a sense of place and confirming the tower as a landmark within the Minneapolis-St. Paul metropolitan area. In doing so, the lighting should:

- Draw attention and be memorable
- Engender a unique identity
- Celebrate holidays and noteworthy events/accomplishments
- Promote the integration of art with urban and architectural design
- Encourage innovation and artistic excellence in public art

Due to the public's expectation of prudent fiscal management and the appropriate use of public facilities, it is necessary to ensure all tower lighting is based on the subsequent criteria in accordance with the aforementioned prioritization. In an effort to be transparent, the basis of the lighting color(s) or dynamic feature will be posted on social media (e.g. Twitter, Facebook, etc.). The following criteria should be evaluated to ensure the suitability of lighting for the citizens of Eagan while bearing in mind proper fiscal responsibility. *The guidelines should be used as general design standards for all lighting to be implemented on the Sperry Tower.*

A. Comprehensive Lighting Standards

- a. Default Lighting
 1. Color – 'Eagan Green'
 2. Dynamic feature - flames
 3. Schedule - begin at 10 minutes after sunset and continue to midnight, shutdown, begin again at 4:00 am and conclude at 10 minutes before sunrise
 4. Schedule Alternative – Add: begin at 10 minutes after sunset and conclude at 10 minutes before sunrise
- b. Holidays/Observances (City approved)
 1. Color(s) – Unique to holiday/observance (see Appendix 1)
 2. Dynamic feature(s) - Unique to holiday/observance (see Appendix 1)
 3. Schedule – Default, except New Year's Day (begin at midnight and temporarily conclude 60 minutes after midnight; then default)
- c. Seasonal Palette
 1. Color(s) - Seasonal colors
 2. Dynamic feature(s) - Seasonal design in nature
 3. Schedule – Default
- d. Noteworthy Events/Accomplishments
 1. Determined by City Administrator
 2. Color(s) – Unlimited
 3. Dynamic feature(s) – Unlimited
 4. Schedule – Default
- e. Public Safety Announcements/Notifications
 1. Coordinate with Emergency Management Manager
 2. Color – Red
 3. Dynamic feature(s) – Flashing or text

4. Schedule – begin in response to Storm Warning, Amber Alert, etc. and conclude 5 minutes after begin
- f. Public Art
 1. Selection by Committee (Chair – Recreation Program Supervisor)
 2. NOT overtly religious, political, personal or commercial in nature
 3. Color(s) – Unlimited
 4. Dynamic feature(s) – Unlimited, but no videos
 5. Schedule – Default
- g. External Lighting Requests
 1. NOT overtly religious, political, personal or commercial in nature
 2. Color(s) – Unlimited
 3. Dynamic feature(s) – Unlimited, but no videos
 4. Schedule – Default

B. Lighting Schedule

A 12 month tower lighting schedule shall be established annually. Dates with specified observances shall have proposed color schemes or dynamic features. A policy appendix (Appendix 1) is attached as a component of this policy that details the 12 month lighting schedule for the tower. Requests for special lighting to be added to the schedule of the tower lighting may be allowed through the use of applications from interested parties. Lighting requests submitted by March 1 each year will be considered for the following 12 month lighting schedule. Separate applications may also be submitted for any unscheduled dates throughout the year. Unique lighting of dates not included in the schedule is supported by the policy, without need for a specific observance, such as the default Eagan Green.

C. Guidelines for Considering Lighting Requests

The following criteria shall be applied to all lighting requests from external parties. Only private requests of a nature that are NOT overtly religious, political, personal or commercial shall be considered for acceptance.

- a. External Lighting Request
 1. Privilege, not entitlement
 2. Submit application form (on City's website)
 3. No guaranteed approval
 4. No feedback obligation regarding status, merit or denial of application
 5. No automatic renewal; applicants must submit a new request each year and are not automatically guaranteed to be selected again
 6. No lighting for overtly religious, political, personal or commercial events
 7. Submit application a minimum of 30 days before requested date
- b. Application Form
 1. Name of organization, contact person, address, telephone number and email address
 2. Event/observance description
 3. Date of event/observance
 4. Specific lighting color - preferably the official RGB color code

5. Specific dynamic feature – preferably provide internet link to feature
- c. Application Approval
1. Notification by City staff within 14 days of submittal if the application has been approved or denied
 2. Application conflicting with date of previously approved application or lighting schedule will be denied
 3. Approved applications granted for a maximum of one night
 4. Only one approved application will be granted per requester annually

D. Conclusion

Tower lighting shall be determined by the Public Works Director, or his designee, utilizing this policy, concerns for public safety, engineering judgement and the calendar. This policy addresses the lighting of the Sperry Tower located at 1420 Towerview Road, Eagan, MN. The facility and property are under the jurisdiction of the City of Eagan.

On December 19, 2017, the City Council approved the amended Sperry Tower Lighting Policy for staff implementation.