Amendment to the Lighting Ordinance Regarding Sports Facilities

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The existing Sports Facility Lighting section of the City's code was written for recreational uses and did not anticipate professional, championship-level events designed for broadcast-quality play. Accommodating that level of use within the same standards does not work.

Professional facilities require higher color-temperature lighting and taller poles, both of which significantly increase the risk of glare and light trespass. DarkSky International recommends accommodating these needs but add requirements to mitigate the negative impacts. These added requirements are technical and would be inappropriate for neighborhood-scale courts.

This proposal separates sports lighting into General Sports Facilities and Professional Sports Facilities, allowing professional uses under stricter, targeted controls while keeping recreational and residential courts subject to simpler, appropriately scaled requirements.

Note: "Foot-candles" are referenced in the General Sports Facilities section. Tennis Class IV Use Standards for recreational play that does not draw a large number of spectators, and limits light Intensity to 30 foot-candles. See www.nationalled.com

16.23.104: DEFINITIONS:

Add: Professional Sports Facility: A sports facility located in the Resort Commercial (RC) zone, approved through a Conditional Use Permit, and primarily designed and operated to host professional or championship-level competition, or events designed for broadcast-quality play.

Add: General Sports Facility. A sports facility or sports court not qualifying as a Professional Sports Facility, intended primarily for recreational use and not designed or operated for professional or championship-level competition, or events designed for broadcast-quality play.

Add: Field of play. The field, court, or other area where the relevant sport is played.

16.23.105 (3) (a)

- Existing: For non-residential properties, private streets and parking lot lighting: The correlated color temperature (CCT) of outdoor lamps shall be three thousand degrees Kelvin (3,000°K) or less.
- Add: Sports facility lighting shall comply with subsection (18)

16.23.105 (18) Sports Facility Lighting

18) Sports Facility Lighting

a) **All Sports Facilities**. For all "General Sports Facilities" and "Professional Sports Facilities" the following shall apply:

i) **Shielding, Glare, and Uplight Control**. All sports lighting shall be fully shielded and aimed such that no light is emitted above the horizontal plane in the final installed and aimed position. The light source or luminous elements of the fixture shall not be visible from any residential property.

ii) **Curfew**. All sports lighting shall be turned off no later than thirty (30) minutes after the scheduled conclusion of the final organized game, match, or practice for the day. In no event shall sports lighting operate after eleven o'clock (11:00 p.m.), except solely to allow the uninterrupted completion of a scheduled game or match that was in progress prior to 11:00 p.m.

iii) **Compliance**. All sports facility lighting shall comply with all applicable provisions of this section and this chapter, unless expressly exempted.

iv) **Post-Installation Mitigation**. If, after installation and operation, sports lighting is found to create glare, spill, or light trespass inconsistent with the requirements or intent of this section, the City may require reasonable corrective measures to achieve compliance. Corrective measures may include re-aiming fixtures, adjusting output levels, adding shielding or louvers, modifying operating schedules, or other comparable measures appropriate to the scale and type of facility. For Professional Sports Facilities, compliance with required corrective measures shall be a condition of continued operation under the approved Conditional Use Permit.

b) **General Sports Facilities**. For all sports lighting installations not defined and qualifying as a Professional Sports Facility, the following shall apply:

i) **Color Temperature**. The correlated color temperature (CCT) of outdoor lamps shall be three thousand degrees Kelvin (3,000°K) or less.

ii) **Illumination**. For all sports lighting installations not qualifying as a Professional Sports Facility, the average maintained illuminance on the field of play shall not exceed thirty (30) foot-candles, measured across the field of play. Compliance shall be demonstrated through a photometric plan or manufacturer's lighting data sufficient to show average illumination levels.

iii) **Pole Height**. Any general sports facility proposing sports lighting poles exceeding eighteen (18) feet measured from the finished playing surface shall, in addition to all

other applicable general sports facility requirements, demonstrate through site-specific photometric analysis that the increased height reduces off-site glare, spill, or light trespass when compared to a compliant eighteen (18) foot installation.

iv) **Submittal Requirements**. Applicants shall submit sufficient information to demonstrate compliance with this section, at a level of detail appropriate to the scale of the installation. Required submittals shall include fixture specification sheets, mounting heights, aiming information, and manufacturer's lighting data showing correlated color temperature and average illumination levels on the field of play. Alternatively, the applicant may submit a signed statement from a qualified lighting professional certifying that the proposed lighting design meets or exceeds all applicable requirements of this chapter.

c) **Professional Sports Facilities**. For all sports lighting installations defined and qualifying as a Professional Sports Facility and approved through a Conditional Use Permit, the following shall apply:

i) **Color Temperature**. All sports facility lighting shall utilize lamps with a correlated color temperature (CCT) of no more than 5,700 Kelvin. Lamps exceeding 5,000 Kelvin are permitted only where required for professional or broadcast-quality competition.

ii) **Illumination**. The average maintained illuminance on the field of play shall be no more than ten percent (10%) above the target average illuminance defined by the latest edition of "ANSI/IES RP-6, Recommended Practice: Lighting Sports and Recreational Areas," for the applicable sport and class of play. Photometric plans shall be submitted demonstrating average, minimum, and maximum illuminance levels, uniformity ratios, and the calculation grid. Compliance with this subsection shall be determined based on the luminaire's actual installed and aimed condition, not solely on manufacturer photometric data.

iii) **Pole Height**. The height of sports lighting poles, measured from the finished playing surface, shall adhere to current IES standards for the applicable sport. Where IES or the lighting manufacturer provides a recommended range of pole heights, the lowest height in the recommended range shall be used, unless a greater height is demonstrated, through site-specific photometric analysis, to materially reduce off-site light spill, glare, or trespass when compared to the lowest recommended height. Any increase in pole height above the lowest recommended height shall require express approval through the Conditional Use Permit.

iv) **Field Containment and Spill Control**. At least 85% of the total lumens generated by the downward-aimed sports lighting luminaires illuminating the field of play must fall inside the field of play. Photometric calculations shall identify lumens inside and outside the field of play and demonstrate compliance with this requirement.

v) **Required Controls**. Sports lighting systems shall include automatic controls capable of enforcing the curfew time, manual and remote controls for authorized personnel, dimming capability from twenty-five percent (25%) to one hundred percent (100%) of full output with preset levels for different uses (competition, practice, maintenance, etc.), and separate control zones for each playing field.

vi) **Submittal Requirements**. All Professional Sports Facility lighting shall comply with applicable IES standards and the performance criteria of this section. Applicants shall submit a lighting compliance report prepared and signed by a qualified lighting professional, demonstrating compliance with all applicable requirements of this section, including illuminance limits, spill and glare control, correlated color temperature, pole height, curfew, and control requirements. The lighting compliance report shall include, at a minimum:

(1) A photometric lighting plan and calculation report;

(2) Documentation of light spill, glare control, and lumen containment;

(3) A lighting control and curfew schedule;

(4) Luminaire specification sheets, including correlated color temperature (CCT); and

(5) A signed statement by the lighting professional certifying that the proposed lighting design meets or exceeds all applicable requirements of this chapter.