

**City of Los Angeles
Bureau Of Street Lighting**

REVISED

**POLICY, SPECIFICATIONS, and PROCEDURES for
COMMUNICATIONS INSTALLATIONS ON
STREET LIGHTING POLES**

This report addresses the installation of communications equipment on street lighting facilities within the City of Los Angeles. The Bureau of Street Lighting recognizes the need and customer demand for these installations. This report also addresses the specifications required to maintain the street lighting systems in operation to meet the needs for lighting of streets and public ways.

POLICY

In approving, implementing and executing the policy, specifications and procedures contained in this report, it is not the intent of the City of Los Angeles to conflict with State or Federal laws, codes, or regulations.

Installations of communications equipment shall not be in conflict with any codes or specific plans of the Department of Planning, Building and Safety, or Department of Water and Power.

The installation of the communication equipment shall adhere to all the guidelines and safety requirements of the Standard Specifications for Public Works Construction, The "Work Area Traffic Control Handbook", the State of California High Voltage Electric Safety Orders (low and high voltage), the PUC General Order No. 95 and the Special Specifications for Street Lighting Construction.

SPECIFICATIONS

1. Installation Requirements

Installations of communications equipment shall be placed only on pre-approved steel or concrete poles that are taller than 25' in height and affixed with a cobrahead luminaire.

Communications equipment may not be mounted on a pole with traffic signal equipment.

A pole may have only **one** piece of communication equipment mounted in accordance with the restrictions specified below. Additional devices would need to be reviewed and approved by the Bureau of Street Lighting on a case-by-case basis.

All facilities installed shall meet all clearance requirements from overhead power lines as specified in General Order No. 95.

Ornamental poles shall not have communications equipment attached.

Attachment to existing street lighting equipment

The communication equipment may be placed on the pole, arm (steel only) or luminaire in accordance with the following requirements.

- **POLE MOUNTED**

Location: Any communications equipment mounted on the pole must be placed within the top 3 feet of the electrolier.

Attachment: The equipment shall be securely fastened to the pole and shall not extend more than 6" from the exterior of the pole. The equipment shall not extend more than 6" up from the top of the pole.

Weight: The equipment shall **not weigh more than 20 pounds.**

Size: The unit shall have a **maximum surface area of 1 square foot on each side.**

- **ARM MOUNTED (Units shall **not** be placed on aluminum arms)**

Location: Any communications equipment mounted on the arm must be securely fastened.

Attachment: The equipment shall be securely fastened to the arm and shall not extend more than 6" from the exterior of the arm.

Weight: The equipment shall **not weigh more than 12 pounds.**

Size: The unit shall have a **maximum surface area of 1 square foot on each side.**

- **LUMINIARE MOUNTED**

Location: Any communications equipment mounted on the luminaire must be securely fastened.

Attachment: The equipment shall be securely fastened and shall not extend more than 6" from the exterior of the luminaire.

Weight: The equipment shall **not weigh more than 12 pounds.**

Size: The unit shall have a **maximum surface area of 1 square foot on each side.**

Replacement of existing street lighting equipment

Existing street lighting poles may be replaced, at the cost of the applicant, to accommodate weight in excess of maximum requirements. This replacement shall be in accordance with the following requirements:

- The submittal must include design of the pole and foundation to meet the latest City adopted AASHTO requirements. Structural calculations signed and stamped by a California PE Civil/Structural Engineer and shop drawings will be required prior to approval.
- The replacement pole must look exactly the same in appearance and measurements unless otherwise approved.
- Exceeding the maximum size requirement for the mounted equipment will be approved on a case-by-case basis.

2. Electrical Requirements

The communications equipment will obtain service from the street lighting system. Additional power cables will not be allowed in the street lighting poles, but communication lines will be permitted.

It is the responsibility of the applicant to determine the operating voltage of the existing system that is to be utilized. The Bureau currently has some high voltage circuits that will not be available for attachment of telecommunication equipment. If the location is necessary, the communications carrier will need to pay for the conversion to low voltage of the electroliers impacted. Contact the Bureau of Street Lighting for a cost estimate.

The communications equipment shall require no more than 1.5 amps operational current or 2 amps start up current at 120 Volts from the street lighting system.

Any equipment that exceeds the maximum amps allowed will be considered based on the existing system capacity and future expansion needs.

The power shall be obtained through the photocell connection unless otherwise approved. The applicant shall exercise extreme care and caution when attaching to the electrical system of the streetlight. It is the responsibility of the applicant to ensure that the attachment is done properly and the streetlight is not damaged and works properly.

The photocell must be securely placed back on the cobrahead unit. If the photocell is not securely put back, the streetlight will not operate and any repair calls to this location as a result of this installation will be charged to the applicant's work order and billed to the applicant.

3. Aesthetic Requirements

- Color

The communication units shall be a color matching the existing luminaire, pole or arm or be white, brown, grey or beige.

- Amount of installations

I. For city blocks less than 1000 feet in length the limit is four (4).

II. For city blocks equal to or greater than 1000 feet in length the limit is four (4), plus one (1) additional communication equipment for every additional 250 feet of city block length.

III. In Industrial (LAMC 12.17.5 – 12.20) zones, there is no limit per city block.

- Restricted installations

Communications equipment may **not** be installed on poles with the following conditions:

- poles with more than one art display already attached. Art display refers to banners or other permanent medallion;
- poles operating on series circuits;
- poles with traffic signal equipment;
- poles that have upright luminaries;
- arms that are aluminum.

4. Maintenance

In the event that the pole is knocked down or required to be removed the cost and physical relocation of the communications equipment are the sole responsibility of the applicant. The company will have 48 hours from notification by BSL to remove their equipment and relocate on the streetlight replacement or adjacent pole.

The Bureau has the right to refuse installation on any streetlight based on safety or aesthetic reasons. The Bureau has the right to order the removal of any existing communications facility for safety, aesthetic or possible interference with the operation of the streetlight or other equipment within the vicinity.

Any damage to the streetlight during installation of the communication equipment shall be the responsibility of the applicant.