

Appendix A1

Department : Transport Service
Title : Cast Iron Lighting Column Replacement and Refurbishment Policy
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DOCUMENT PRELIMINARIES

Document Approval

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WHAT IS THE PURPOSE OF THIS DOCUMENT

Effective street lighting has an important positive input to safety and to the attractiveness of walking, cycling and public transport, both as a deterrent to crime and as an enhancement to the area. It is vital that the system is well maintained, including programmed replacement of deteriorated lighting columns.

As with all areas of spending the Council has to ensure that the funding which is available for street lighting maintenance and improvement is spent effectively. The purpose of the Cast Iron Lighting Column Replacement and Refurbishment Policy is to set out the principles for Bristol City Council to replace or repair cast iron and non-galvanised street light columns, to deliver its statutory duty and to maintain the public realm.

SCOPE

Bristol City Council is responsible for maintaining 43,198 street lighting columns of which 2,093 are cast iron columns and 4,797 are non-galvanised steel columns

POLICY STATEMENT

All cast iron columns are to remain in the streets they are currently located in.

All damaged cast iron column will be replaced with cast iron columns from current stock.

When stock has been exhausted, cast iron columns will be replaced with steel columns with embellishment kits (example photo H).

Cast iron columns that have a 'mains at head' safety issue (example photos B and C) will either be taken away, refurbished and extended enabling an electrical cut out to be placed at the bottom of the column (example photo D). Or alternatively, a feeder pillar placed to the rear of the footway to allow isolation at this point (example photo E). This decision will be undertaken by the lighting technician dependant on the current lighting stock and budget availability to ensure we meet our legal duties under the electrical wiring regulations.

Decorative non galvanised steel columns (example photo F) are becoming a health and safety risk as they are rusting and need replacement in the next 2 years. These will be replaced by new galvanised steel modern columns in all areas (example photo G). The new galvanised steel columns can be made more decorative using embellishment kits (example photo H) if embellishment kits have been used previously in the street or local community funding is available.

All damaged galvanised steel columns will be replaced with new galvanised steel columns.

As part of all column replacement, energy inefficient orange lighting will be replaced with more efficient LED lighting to reduce energy consumption, costs, and our carbon footprint.

Street lighting columns that are listed will be dealt with on a case by case basis and in consultation with the appropriate bodies.

PRINCIPLES

All lighting assets are subject to inspections as set out in the Inspection Policy [yet to be produced].

The first choice light source for highway lighting will be LED (Light Emitting Diodes) or Cosmopolis (ceramic discharge metal halide, CDM), both of which emit white light.

In determining levels of illumination, lighting positions and styles, the design brief will take account of an area's unique character and needs in terms of vehicular/pedestrian activity and location of local amenities. However, generally the requirement of the BSEN standard is expected to be met.

All street lighting and electrical systems must comply with general legislation, as well as more specific street lighting industry standards, as shown below.

POLICY ANNEX

Photographs

Overarching legal requirements

All apparatus shall be erected in compliance with the following statutes and regulations:

Health and Safety at Work, etc. Act (1974)
Electricity-at-Work Regulations 1989
BS 7671: Regulations for Electrical Installations
BS EN 60598: Luminaires - Specification for luminaires for road and street lighting
BS 5489: Code of Practice for the Design of Road Lighting
PrEN 13201-1 European Standard for the Design of Street Lighting on the Public Highway
BS EN 60590: Specification for Clarification of Degrees of Protection provided by Enclosures
EN40: Lighting Columns
DfT Department for Transport
BD 26/86 The current DfT DMRB
ILE Technical Report 23 - Lighting of Cycle Tracks
Traffic Signs Regulations and General Directions 2002 and Amendments
Disabled Persons Act (1981)
Road Hump Regulations 1999
Highways Act (1980)
Goods and Services Act
The Local Government Contract Act
The Management of Health and Safety at Work Regulations 1982
New Roads and Street Works Act 1991
BS 7671: Regulations for Electrical Installations 1992
BS EN 605589-2-3: 1994 Luminaires for Road and Street Lighting
BS 5649: Lighting Columns
BS EN 40: Lighting Columns 1992
Department for Transport Standard BD26/94 - Design of Lighting Columns