Transport for London
London Underground

Guidance Document: Prevention of Cable Theft

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Document Approved By : Kevin Payne, Head of Power and Cooling Upgrades.

As guidance, this must not form part of Contractual terms and conditions between London Underground and Supplier, neither are bound to provide any of the items or services or follow any processes described in this document unless they are also required to provide them explicitly by other, Contractual binding, documents.

Purpose This guidance describes methods you may employ to protect cables from theft on the operational railway.

Scope: The purpose of the guidance is to equip LU managers, suppliers and contractors with the knowledge and competence necessary to effectively discharge their respective obligations in an efficient and risk-based manner.

Guidance: The guidance will provide information on how to comply with LU's standards and provide practical on the ground advice on the security measures that should be taken by LU or supplier contract or project or managers and LU operational managers when protecting cables from theft on the operational railway. The guidance will outline:

- The general measures that should be applied when monitoring operations at a location where cable is being installed or stored
- Details of who to contact prior to commencement of work on particular job/site for accessing risk.
- Details of who to contact for an immediate response to an Emergency, Issue or concern.

Stage One: Pre Project Risk Assessment
It is recommended that you carry out the following as best practice.

- Carry out a site specific risk assessment in conjunction with BTP crime reduction and Network Security. **Note:** The risk assessment should detail whether cables are jointed /energised as this will decrease the risk of theft.
- Discuss any risk assessment findings with the delegated LU Project Manager to agree resolutions.

Stage Two: Outcomes of the Risk Assessment
If the outcome of the Project risk assessment identifies that additional security measures are required then consider the following approved options (see below) that have been adopted on other LU project sites.

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Technology Options:
The following equipment is approved for use on the operational railway:

- **Motion tags:** The Gateway / TAG system is a many to one solution whereby a number of TAGS (usually around 20) are deployed in an area up to 1km away from the gateway. The Gateway talks to the tags over RF and whenever a tag is moved it will report this over GSM to the solution server and present alarms to the user. Batteries will last approximately 12 months in both the TAG and Gateway. (Supplier TEW Plus – product number TPPN20001 = Gateway Transponder TPPN20002 = Movement Tag).

- **Yellow box deployable CCTV camera:** A yellow solar powered camera with GSM capability to protect a remote site with CCTV and send alerts upon movement, via SMS and email (Supplier TEW Plus – product number TPPN10020 = Solar Powered Overt Camera TPPN10021 = Mains Powered Overt Camera).

- **JCB CCTV Tower:** JCB towers incorporate all the necessary components to provide effective CCTV monitoring and recording in a robust, housing. A vandal-proof pan-tilt-zoom camera is supplemented with infra-red illuminators, a variety of movement detectors, a digital recorder and a public address system. (Supplier TEW Plus – product number TPPN30001 = JCB Rapid Deployable CCTV Tower (single PTZ)).

Note: If any additional equipment is identified for use by the contractor approval from LU may need to be sought. Initially contact LU Network Security as per contact below.

Human Surveillance Option: It is strongly recommended that a form of on site security is provided to **a)** patrol the perimeter in hotspot areas and **b)** to be point of contact with alarm receiving centre and **c)** to notify BTP.

Personal Protective Equipment Option: It is recommended that High Visibility Vests with the contractors name embedded on back and Lucas card window holder on the front is adopted by all contractors.

Document Responsibilities: Overall responsibility for this document rests with the Document Approver.

Contacts: Suppliers must refer to respective contracts. Other useful contacts are as follows:

Name	Department	Position	Contact Details
Mark Lewis	LU Network Security	Security Risk Manager	020 7918 4539 07789 652601
Steve Cattle	BTP Crime Reduction	Crime Reduction Officer & point of contact for security officers	020 7027 8187 07764 293179

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