

Annexe - for LUL

LUL 2. Truss

LUL 2.1. Truss framework

LUL 2.1.1. The truss width shall not exceed 1.66m at the lower landing and throughout the length of the incline, and shall not exceed 1.8m at the upper landing.

LUL 9. Tension carriage

LUL 9.17. It shall be possible to access and reset the switch from the lower machine chamber without entering a guarded area.

LUL 17. Balustrade and skirting

LUL 17.2. Balustrade

LUL 17.2.4. All balustrade cladding shall be made of metal. Balustrade interior panels shall have all external faces finished to 120 grit or finer in the direction of passenger movement.

LUL 17.2.5. The balustrade shall be designed such that a point load of 50N applied by hand, at the centre of a panel adjacent to any edge, shall deflect the panel by less than 0.5mm relative to the adjacent panel.

LUL 17.2.6. The balustrade and decking shall be designed and supported such that it can support a weight of 1000N applied over an area of 50mm x 50mm without any permanent deformation.

LUL 17.2.7. When a force of 500N is applied to the balustrade panels at any point of the panelling at right angles over an area of 50mm x 50mm, there shall be no gap greater than 1mm and no permanent deformation.

LUL 17.2.13. Where the escalator is a replacement for an existing escalator or fixed staircase, and there are adjacent escalators in the same inclined tunnel or shaft way, which do not form part of a current or planned modernisation project, the *Contractor* shall be responsible for the interfaces between the new escalator and any existing escalators, fixed staircases and advert panels.

LUL 17.2.14. Not applicable for LUL.

LUL 17.5. Newel end equipment

LUL 17.5.1.

- a) To LUL drawing 584-12005;
- b) To LUL drawing 559-905;

LUL 17.5.6. Where specified in the site-specific documentation, traffic light signalling shall be provided at both the upper and lower newel ends to indicate if the escalator is accessible to passengers and denote the direction of travel.

LUL 18. Passenger signs & notices

LUL 18.1. To LUL drawing 36-913 or 36-917.

LUL 18.2. To LUL drawing 384-991.

LUL 20. Guarding

LUL 20.1. General

LUL 20.1.5. The guards shall not permanently prevent access to any area, nor shall they prevent egress from any area in the case of an emergency.

LUL 20.1.6. The guards shall not affect the operation of the escalator in any way or prevent access to emergency stop switches or inching sockets.

LUL 20.2. Passenger side guarding

LUL 20.2.2. Engineers' maintenance guards shall be provided to LUL drawing 34-905. These shall be stored in the upper machine chamber.

LUL 20.3. Machine room guarding

LUL 20.3.4. Each access door in the guard panels shall be fitted with a budget lock (LUL Part No. 348-7919).

LUL 20.3.7. The position for mounting the guard location diagram, described in Part 1, clause LUL 10.24.1 of this specification, shall be agreed with the *Employer*. The manufacturer of the guarding shall incorporate its company name and date of fixing, on the diagram.

LUL 20.3.8. HSE/ORR have granted London Underground an exemption from the requirement to guard the incline truss, provided suitable guards are provided across the whole of the top and bottom of the incline. These shall effectively prevent access to any part of the escalator from the upper machine chamber and lower machine chamber areas, except by means of locked access gates (see clause 20.3.12).

LUL 20.3.14. Each access gate shall be fitted with a budget lock (LUL Part No. 348-7919).

LUL 20.3.20. Where applicable, the *Contractor* shall fit safety notices on access gates or fixed guards (see Part 1, sub-section LUL 10.24 of this specification). Locations for these shall be agreed with the *Employer*, prior to fixing.

LUL 21. Access stair handrail

LUL 21.1. Site-specific documentation may require the installation of a galvanised steel handrail to be fitted to the sides of the escalator, in conjunction with the incline maintenance stairways. If required, the following shall apply:

- a) The stair handrail shall consist of a 'Kee Clamp' or similar system;
- b) Where an incline handrail is above the lowest truss member, an appropriate mesh or sheet guard, depth of 200mm, shall be fitted behind the handrail;
- c) A clear walking route of 600mm minimum shall be maintained between the handrails (the *Employer* may agree to waive the requirement for one or both handrails if this clearance cannot be achieved).

Annexe - for CRL

CRL 2. Truss

CRL 2.1. Truss framework

CRL 2.1.1. The truss shall be designed to fit within the station spatial requirements.

CRL 9. Tension carriage

CRL 9.17. It shall be possible to access and reset the switch from the lower truss area without entering the guarded area.

CRL 17. Balustrade and skirting

CRL 17.2. Balustrade

CRL 17.2.4. All balustrade panels shall be made of toughened laminated glass, which is non-structural and complies with the requirements of the following CRL documents:

- a) C100-ATK-A-RST-CRG02-50001: Escalator constructability & maintenance C100 Architectural Components;
- b) C100-ATK-N2-RSP-CR002-00001: Architectural common components design stage F1 specification – JX10 Extract.

CRL 17.2.5. Not applicable for CRL.

CRL 17.2.6. Not applicable for CRL.

CRL 17.2.7. Not applicable for CRL.

CRL 17.2.13. Not applicable for CRL.

CRL 17.2.14. To isolate an escalator to enable refurbishment or major repair works to be carried out on an individual machine without removing adjacent escalators from service an integrated hoarding system shall be provided between escalators within the decking panels. It shall consist of fire resistant panels and supports that fit in sockets together with top and bottom end panels fitted with lockable doors.

CRL 17.5. Newel end equipment

CRL 17.5.1.

- a) To CRL drawing C100-ATK-A-DDD-CR001_Z-53002;
- b) To CRL drawing C100-ATK-A-DDD-CR001_Z-53003;

CRL 17.5.6. Traffic light signalling shall be provided at both the upper and lower newel ends to indicate which escalators of a flight are accessible to passengers and denote the direction of travel.

CRL 18. Passenger signs & notices

CRL 18.1. In accordance with CRL drawing C100-ATK-A-DDD-CR001_Z-53000 and the CRL Signage Strategy.

CRL 18.2. In accordance with the CRL Signage Strategy.

CRL 20. Guarding

CRL 20.1. General

CRL 20.1.5. Not applicable for CRL.

CRL 20.1.6. Not applicable for CRL.

CRL 20.2. Passenger side guarding

CRL 20.2.2. Not applicable for CRL.

CRL 20.3. Machine room guarding

CRL 20.3.4. Not applicable for CRL.

CRL 20.3.7. The location of the guards shall be agreed with the *Employer*.

CRL 20.3.8. Where there are two or more escalators in a flight, guarding shall be fitted to the side of one truss, between two adjacent escalators, to permit safe working on one escalator, whilst the other is in service. If the escalators are sufficiently spaced so as not to present a risk to safe working, this guarding will not be required.

CRL 20.3.14. Not applicable for CRL.

CRL 20.3.20. Not applicable for CRL.

CRL 21. Access stair handrail

CRL 21.1. Not applicable for CRL.

**Schedule 4
Programme**

On going business requirement.

Schedule 5

Contract Variation Procedure

- 1 The cost of any Variation Order shall be agreed between the parties taking account of the reasons why the Variation Order was required.
- 2 The Company may propose a variation by completing Part A of the Variation Proposal and supplying three (3) copies of it to the Supplier. Within five (5) Working Days of receipt, or such other time as may be agreed by the Company, the Supplier shall complete Part B of the Variation Proposal and shall supply two (2) copies of the Variation Proposal to the Company. The Company shall be entitled, at any time within thirty (30) days of receipt, to instruct and authorise the Supplier to proceed with the variation on the terms so set out by each party by completing and signing Part C of one copy of the Variation Proposal (which, following such signature, will be referred to as a "**Variation Order**") and supplying such Variation Order to the Supplier. The relevant part(s) of the Contract shall thereupon be varied accordingly.
- 3 The Supplier may propose a variation, after requesting the issue by the Company of a Variation Proposal variation number, by completing Parts A and B of a Variation Proposal and supplying two (2) copies of it to the Company. The Company shall be entitled, at any time within thirty (30) days of receipt, to instruct the Supplier to proceed with the variation on the terms so set out by the Supplier by completing and signing Part C of one copy of the Variation Proposal (which, following such signature, will be referred to as a "**Variation Order**") and supplying such Variation Order to the Supplier. The relevant part(s) of the Contract shall thereupon be varied accordingly.
- 4 The Supplier may indicate in a Variation Proposal that the price is an estimated price but, if it does so, it shall supply a firm price to the Company in writing at least seven (7) days before the expiry of the time within which the Company is entitled to instruct the Supplier to proceed with the variation.
- 5 The price indicated by the Supplier must be the full price and shall cover all costs associated with the variation. If appropriate a range of prices may be shown corresponding to the extent of the Services to be carried out.
- 6 In an emergency, both parties shall use their reasonable endeavours to expedite the actions permitted or required under the Contract Variation Procedure.
- 7 The Company will not accept any retrospective claims for additional work caused by a variation which has not been approved by the Company in accordance with the Contract Variation Procedure before the commencement of such additional work.

8.1 All authorised additional work resulting from any Variation Proposal shall be priced in accordance with any applicable rates set out in Schedule 2.

8.2 The Supplier shall at all times act reasonably and shall price each Variation Proposal at the least possible additional cost to the Company that it is reasonably and economically practicable for the Supplier to offer and which has the least possible impact on the terms of the Contract, including but not limited to, the Specification and the Programme.

9 Strict adherence to the procedure described in this Schedule 5 shall be a condition precedent to any addition to the Contract Price for the Services. If the Supplier does not adhere to each paragraph in this Schedule 5 then the Supplier shall not be entitled to any addition to the Contract Price notwithstanding that the Supplier may have supplied additional or varied Services.

Appendix 1 **Form of Variation Proposal/Variation Order**

To:		From:	
Contract Reference: Variation Number: Variation Title:			
PART A (TO BE COMPLETED BY THE ORIGINATOR OF THE VARIATION ORDER)			
Description of change:			
Reason for changes and impact (if any) on Contract:			
Variation Proposal Authorised by:		Proposal Date:	
PART B (TO BE COMPLETED BY THE SUPPLIER)			
Price Breakdown Note: If a further breakdown is needed please append details as a separate sheet.			
Expected Delivery Date:			
Supplier's Representative:		Date:	
Print Name:		Signature:	
Completed document to be returned to the Company's Representative			
PART C (TO BE COMPLETED BY THE COMPANY'S REPRESENTATIVE)			
Comment on Parts A and B:			
Variation Authorisation			
Company's Representative:		Date:	
Print Name:		Signature:	

Schedule 6
QUENSH, Quality and Safety Plan

See attachments.

F0780 Contract Menu

This Contract Menu must be used in conjunction with Category 1 Standard [S1552](#) "Contract QUENSH Conditions"

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MAYOR OF LONDON