

Rail and Underground Panel



Date: 13 November 2014

Item 6: New Tube for London

This paper will be considered in public

1 Summary

- 1.1 The accompanying presentation, attached as Appendix 1 provides an update on New Tube for London programme
- 1.2 The presentation covers the following areas:
 - (a) the timeline for the programme;
 - (b) the deliverables under the programme;
 - (c) current rolling stock designs for the Sub Surface and Victoria lines rolling stock;
 - (d) the Siemens concept design;
 - (e) the New Tube for London design principles; and
 - (f) the next steps for the programme.

2 Recommendation

- 2.1 **The Panel is asked to note the paper and presentation.**

List of Background Papers:

None

List of appendices to this report:

Appendix 1: New Tube for London presentation

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London Underground

New Tube for London Presentation

Rail and Underground Panel

New Tube for London Timeline

2011 onwards

- Early 2011, work commenced on the design of the New Tube for London.
- Concept design progressed by TfL in conjunction with industrial designers Priestmangoode, also designed the Pendolino and Voyager fleet for Virgin and the Mercury concept train for HS2.
- Specialised packages: Paul Nulty for Lighting Design and Priestmangoode for Moquette design.

October/November 2014

- Launched the public exhibition on 9 October and runs until 16 November.
- Exhibition used to tell the story publically and continue to gather feedback.
- Shortlisted bidders announced.

February 2015

- Invitation to Tender issued, including design book based on images in this presentation.

2016

- Contract Awarded for Piccadilly Line Fleet with Options for Bakerloo, Central and Waterloo & City Lines.

2017-2019

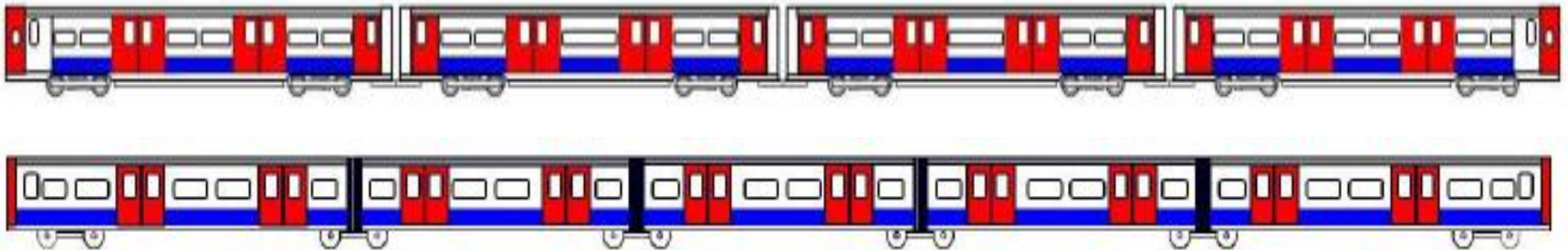
- Design and development of NTfL train for manufacture by supplier.
- Concept Design by October 2017; Preliminary Design by September 2018; Final Design Complete October 2019.

2023

- First of the New Tube for London fleets enters service on the Piccadilly Line.

New Tube for London Will Deliver

1. Higher capacity.
2. Increased reliability and energy efficiency.
3. Saloon cooling for the first time on the deep tube lines.
4. All double doorways (see below configuration) and walk-through interiors.
5. Capability for higher level of automation.



Current Sub-surface Rolling Stock Design – Metropolitan, Circle, Hammersmith & City Lines



Current Tube Rolling Stock Design – Victoria Line



Siemens Deep Tube Concept – Exterior



Siemens Deep Tube Concept – Interior



New Tube for London - Design Principles

1. Use of linear colour banding throughout the train – creating a feeling of height.
2. Considered use of lighting to create a sense of personal space and remove the feeling of clinical sterility - use a blend of direct “shafts” and ambient “wash” lighting sources.
3. Fixtures and fittings to be high perceived quality - materials and techniques - pride and a sense of quality delivered through all of customer touchpoints within the train that wear in and not out.
4. Consistent spacing, positioning and size of windows and doors to create a constant rhythm and a ‘human scale’.
5. A strong use of floor patterns, textures and materials.

New Tube for London Exterior – Distinctly London Underground



New Tube for London Exterior – Evolution of Current Livery



New Tube for London Exterior – Platform Edge Doors



NEW TUBE FOR LONDON INTERIOR



Intelligent Lighting Design



Walk Through Carriages



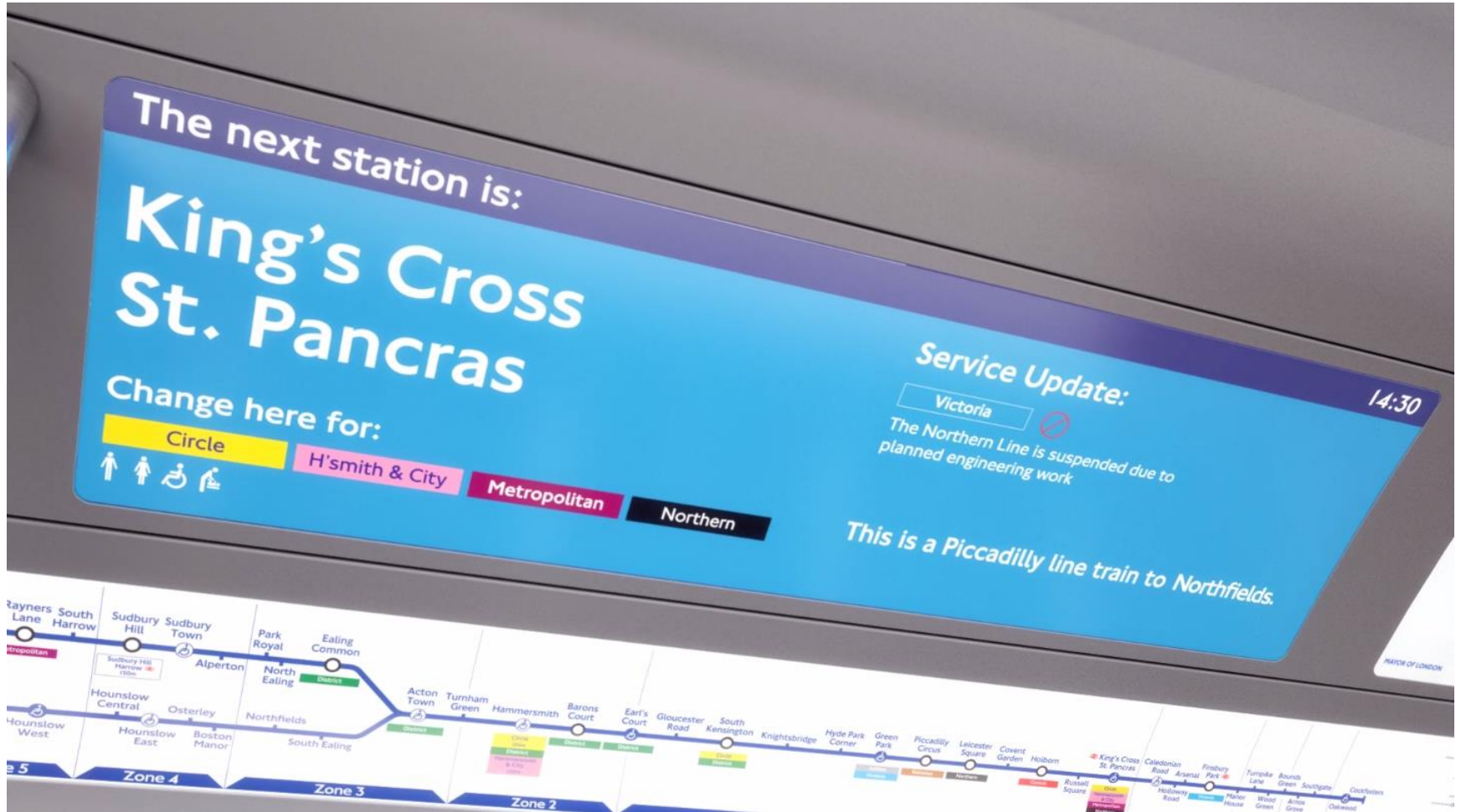
Proportionality of Design



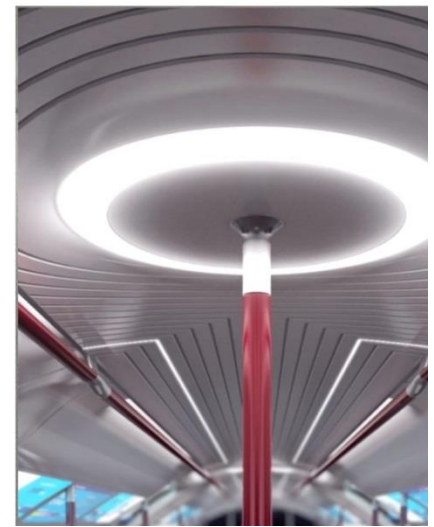
Attention To Detail



Innovation And Technology



High Quality Touchpoints



Next Steps

- Public launch at Kings Cross Northern Ticket Hall, to run until 16 November. This will include the designs presented here today, along with a New Tube for London train model and a 90-second film of the new train design in operation.
- October – announce the short-list of bidders eligible for the Invitation to Tender.
- February 2015 – Invitation to Tender.
- 2016 – contract awarded for Piccadilly Line Fleet with Options for Bakerloo, Central and Waterloo & City Lines.
- 2017 to 2019 – TfL to work closely with winning bidder to refine the industrial design for production.
- 2023 – first New Tube for London trains enter service on the Piccadilly Line.

Q and A

