

Joint Tram Project Board and **tie** Board

16 December 2009

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Building the Tram (Project Director's Report page 12)

- HSQE Report
- Overview of current progress
- Princes St Reopening
- Change requests and risk drawdowns (page 19)
- Progress on dispute resolution
- Gogar Interchange
- Cost and programme update

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Deliver a the Tram Safely



- There have been no reportable accidents during Period 9
- 13 period Accident Frequency Rate to 0.12
- Service damage frequency rate continues to fall, with no service strikes reported by MUDFA.
- BSC service strikes have risen in the period with a significant near miss and service strike recorded. However, the 13 period rolling frequency continues to fall significantly.
- There have been 10 near misses reported during Period 9 the majority of which were reported by the contractor - this is an improvement from last period.

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Deliver a Safe Tram

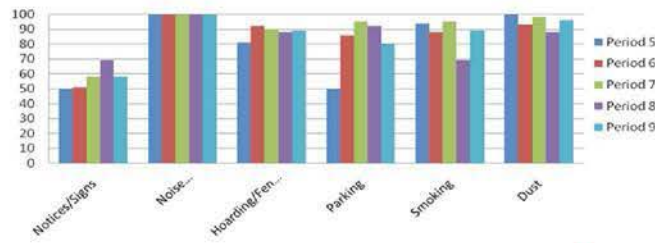
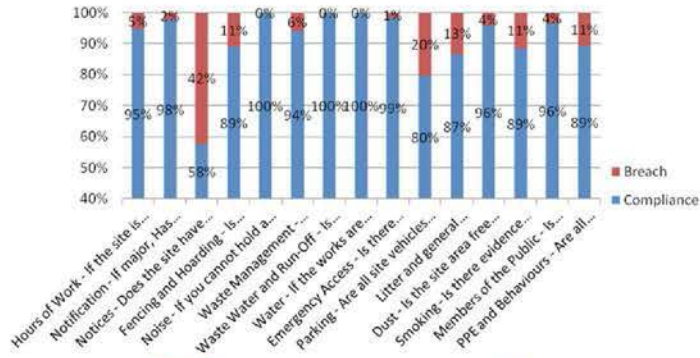
Section	Activity	Data Checked					
		Interdisciplinary Design Check	Hazards	Inspection and Test Plan System	Design Variation/Change	As Built	Asset Register
Section 1D Princes Street	OLE Bases/Structural Concrete	0.5	NA	1	NA	NA	NA
Section 2A Haymarket Viaduct	Re start on site 23/11/09	0.5	0.5	1	1	0	NA
PD	Total (y)	1	0.5	2	1	0	0
	Max Possible Total (y)	2	1	2	1	1	0
Total	Percentage P8	50%	69%	89%	50%	74%	21%
	Percentage P9	21%	73%	90%	53%	73%	50%

Key - Y = Evidence exists (1) N = No evidence exists (0) NA = Not applicable (-) P = Part evidence in place (0.5)

- Due to the handover of Princes Street 3 / 4 Period 9 "Deliver a Safe tram" inspection metrics were held, at Princes Street to ensure records were fully in place.
- A number of actions with regard to improving Deliver a Safe Tram Metrics have been identified and are ongoing
- Contact now established for all aspects of the Deliver a Safe Tram strategy, with the additional support from BSC helping to provide more meaningful outcomes from the weekly inspections.
- Areas previously inspected are being re-inspected to close out actions.
- Weekly meetings now being held with the Quality and BSC quality departments.

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Code of Construction Practice – Period 9



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Progress in Period 9:

- Princes Street Opened on 29 Nov as planned – minor snagging works ongoing – positive feedback
- Christmas Embargo now in place

• Overall	12.5%
• Edinburgh Park Viaduct	82%
• Depot	14%
• Gogarburn Bridge	84%
• Guided Busway Track (outbound)	90%
• Section 7 (Airport)	34%



Utilities

Utilities Works (City Centre)

- Carillion Contract has been closed down & scope transferred
- Clancy Docwra engaged to complete the remaining works (Haymarket & York Place to Annandale Street) works post embargo

Airport Works (Farrans)

- 98% complete – connection works scheduled for New Year

Tower Place – Newhaven

- Contracts awarded to Farrans/Clancy Docwra
- Works underway & scheduled for completion Spring 2010
- Commercial matters with CUS under review covering Changes, re-measurement & disruption claims. Anticipate formal DRP to resolve

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Change Requests and Risk Drawdowns

- Drawdown in period - £1.191m
- Covers 13 individual items including :
 - Network Rail Costs (£644K)
 - Haymarket BDDI-IFC Increase
 - Depot Access Road Specification
 - Ground Conditions at Edinburgh Park Bridge
 - Adoption of Lochside Avenue
- Separate Risk Report in TPB Papers

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Trams Progress

- 13 trams in production;
- 3, 4, 5 & 6 in the finishing area;
- 1st tram 80% through the factory acceptance type test;
- 2nd tram about to start the routine factory acceptance test;
- test track running in Wildenrath planned for Jan/Feb 2010;
- delivery planned for April 2010 to Edinburgh;
- mock-up relocated to The Gyle, more than 4,500 visitors so far



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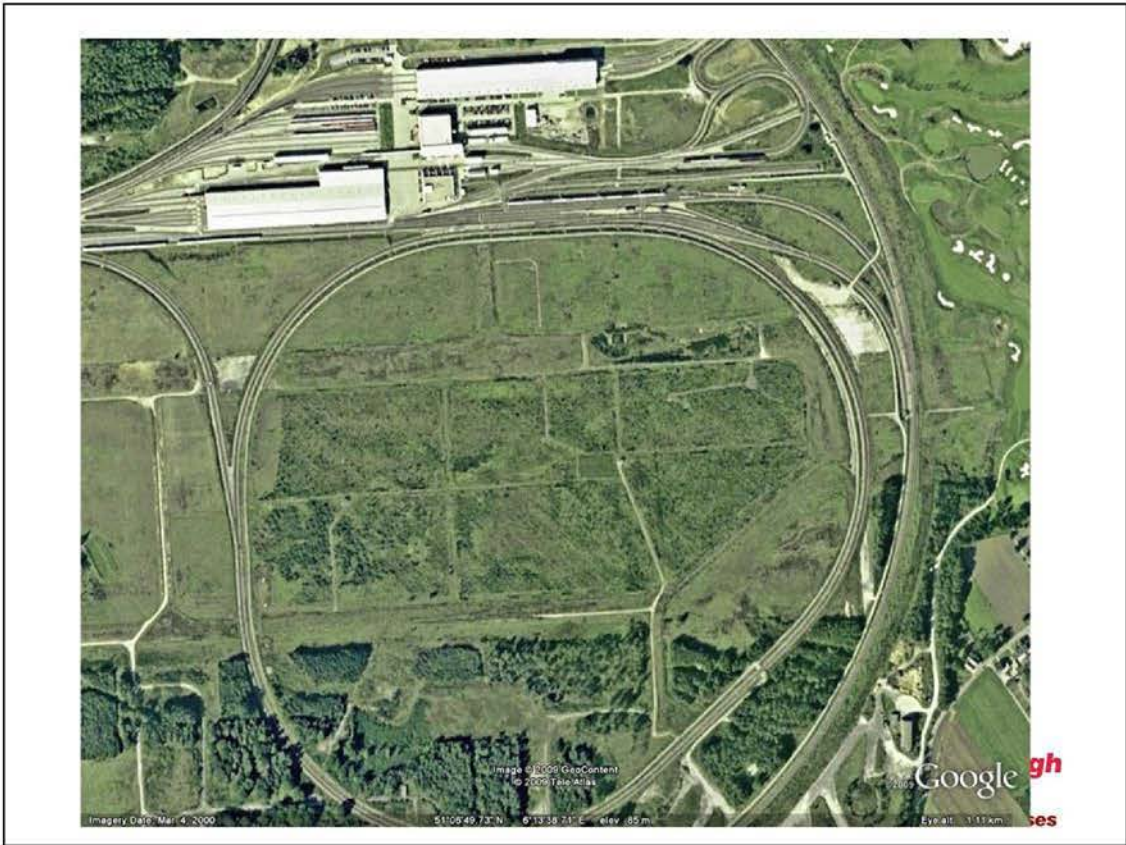
Trams Progress

- 14 trams in production;
- 3, 4, 5 & 6 in the finishing area;
- 1st tram 95% through the factory acceptance type test;
- 2nd tram started the routine factory acceptance test;
- test track running in Wildenrath planned for Jan to Mar 2010;
- delivery of 1 tram still planned for April 2010 to Edinburgh;
- mock-up at the Gyle Centre from the 23rd November – 4,500 visits so far;



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Overall testing status

Stage	Flow Chart	Tests	Description							
8	Passenger Service	Network Performance (TA) and Reliability Test (TR)	The date upon which the Edinburgh Tram Network starts in public service							
PASSENGER SERVICE COMMENCEMENT										
7	Shadow Running	Pre-Operations Test (T3)	The period of Tram operations that simulates full public service operation including running to published timetable and calling / dwelling at Tramstops before the ETN enters public service							
ENERGISATION OF COMPLETED PHASE OF THE ETN										
6	Test Running & Driver Familiarization	Performance Test 1 (T2)	The period post ETN commissioning used to complete driver and control room staff training and gain confidence to enter Shadow Running Phase							
ENERGISATION OF SECTION OF THE ETN										
5	Commissioning	Post-Commissioning Test (T1)	All subsystems, including the tram, are fully integrated to form the ETN and are tested to demonstrate that they work together successfully and meet the Employer's Requirements							
ENERGISATION OF SECTION OF THE ETN										
4	Set to Work Tests	Site Tests	The point at which subsystems have been installed and then tested to prove they meet their requirements with both Type tests and Site Acceptance tests							
LIMITED ENERGISATION OF PART OF THE ETN										
3	Installation / Construction		Once the subsystem has successfully passed Factory Acceptance Tests installation / construction of site will take place and as appropriate a delivery test undertaken	Plainline						
LIMITED ENERGISATION OF PART OF THE ETN										
2	Factory Acceptance Tests	FAT	Thorough demonstrable testing of the subsystem at Infracore's premises	Dynamic	P&C only					
LIMITED ENERGISATION OF PART OF THE ETN				Static						
1	Build / Manufacture		Manufacture and assembly of the System by the Infracore							
LIMITED ENERGISATION OF PART OF THE ETN										
D	Design		The scope of the works designed through Approval in Principle and Approved for Construction & Manufacturing Drawings, with associated verifications and validation test and integration plans complete							
				Lothian Buses						
				Trams	Track	OHLE	Substations	TPDS	SCADA	

Storage options

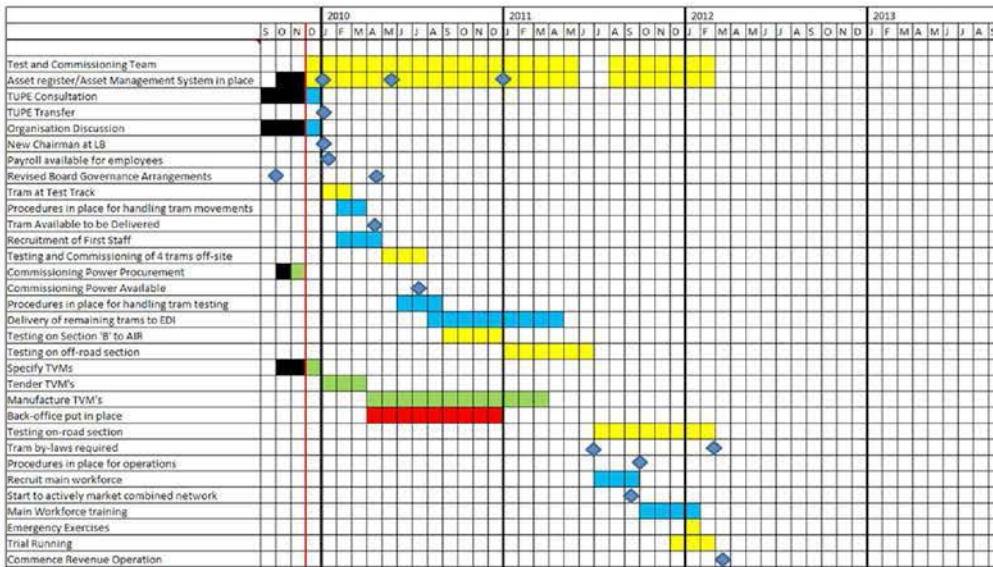
- Edinburgh 1 off display from April
- Wildenrath 2 off hold until able to ship to site
- Croydon 4 off
- Irun (Renfe) 10 off

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Initial site testing – under discussion



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Key:
 ■ Testing and commissioning
 ■ Soft issues
 ■ Procurement
 ■ Progress achieved

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Status of key operations actions underway

- Second BROR committee held
 - OJEU notice for the revenue collection system to be launched today;
 - Processing of electronic payments discussed;
 - Maintenance overview presentation given;
 - Agreed the scope of the preparing for operations workstreams;
 - Reviewed the key decisions in the next 3 months;
- Detailed scheduling completed;
- Resource planning ready for January 2010;
- Project team formed for revenue collection system procurement;
- Coordinated approach to tram, tramstop and busstop branding and dressing;
- DPOFA assignment and TUPE arrangements ready subject to Council Meeting.

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Building the Brand

- See Separate Presentation

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Building the Team

- RJ Verbal Report

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The Future

- RJ Verbal Report

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