# Joint Tram Project Board and tie Board 23 September 2009 Strictly Confidential Transport Edinburgh Edinburgh Trams 1 Lothian Buses

# Building the Tram (Project Director's Report page 11)

- HSQE Report
- Overview of current progress
- Change requests and risk drawdowns (page 17)
- Progress on dispute resolution and use planned contractual levers
- Cost and programme update

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# Deliver the Tram Safely

There have been no reportable accidents during Period 6. The 13 period AFR is 0.25 compared to the target, 0.24 accidents per 100,000hrs worked.

CoCP Score Monthly Average vs

· There has been a decrease in the overall service strike frequency for the project.

0.50

- Directors' Safety tours and Project Manager inspections have achieved 100% of those planned
- There has been an increase in the number of near misses reported from the works at the Airport direct to tie through Farrans and Raynesway. Farrans' Director due to meet with tie mid September.
- Further CoCP inspections have been carried out by tie/ BSC and Carillion. Joint tie /
  BSC inspections have identified the main issues on BSC sites as Provision of PPE,
  Housekeeping and Planning and Management. These issues have been addressed
  directly on site and are being monitored.

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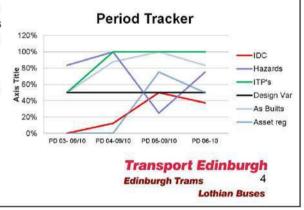
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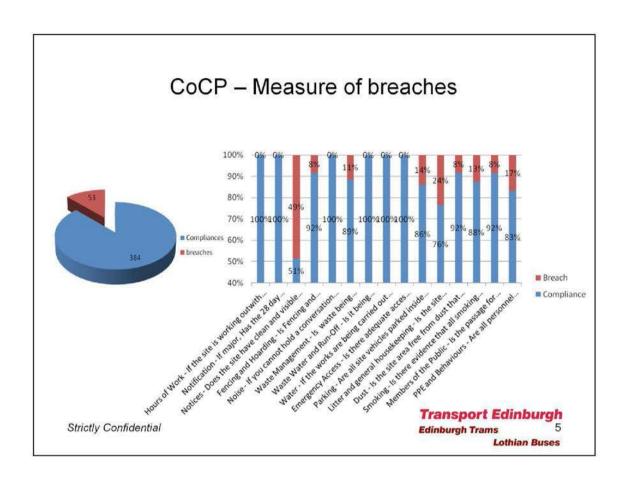
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# Deliver a Safe Tram

		Data Checked						
Section	Activity	Interdisciplinary Design Check	Hazards	Inspection and Test Plan System	Design Variation/Chan ge	As Builts	Asset Register	
Princes St	OLE Pad Foundations	0	1	1	N/A	1	0.5	
Guided Busway	OLE Pad Foundations	0.5	0.5	1	N/A	N/A	N/A	
Princes St	Track works	0.5	1	1	0.5	1	0.5	
Gogar Depot	Building Foundations	0.5	0.5	1	0.5	0.5	N/A	
PD	Total (y)	1.5	3	4	1	2.5	1	
	Max Possible Total (y)	4	4	4	2	3	2	
Total to date	Percentage	25%	71%	88%	50%	80%	63%	

- Period 6 "Deliver a Safe Tram" inspection metrics were carried out on 4 activities across the project, 2 at Princes Street, 1 at the guided bus-way and 1 at the Depot.
- Of the activities checked, an increased number show partial evidence of having gone through BSC's Inter-Disciplinary Check process, however, this was still only ad-hoc through CVI's and SDS internal IDC process as opposed to the full BSC process, however there is still an upward trend.





# Public Feedback - July/August 09

General complaints 57 COCP 37

# Breakdown of issues

- COCP 22 from 1 person (60%)
- · COCP 16 (43%) vehicle parking
- COCP 10 (27%) signage completion dates

# Complaints breakdown

- · Water shutdowns
- Road closures
- · Incorrect Information on TTRO
- · Noise from site plant

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# CoCP - Public Feedback July/August

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# CoCP

Actions being undertaken to improve performance in low scoring areas includes:

- Traffic wardens now ticketing illegal parking by contractors
- Parking permits issued by CEC rescinded and being confiscated when found in contactor vehicles
- 3 strike rule being used by BSC for PPE and behaviour breaches
- Actions will be published on tramsforedinburgh.co.uk from Period 7

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# Overview of current progress

- Utilities
- Tramworks
  - Princes Street
  - Depot
  - Other InfraCo sites
  - Tram manufacture
- Relationship with BSC

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# Utilities

MUDFA Works (Carillion) 97% complete

- Haymarket completion forecast End November (excl gas

abandonments)

- York Place - Picardy Place Technical Solution outstanding

[Resolution anticipated w/c 21/9]

- Leith Walk - Gas & Water

decommissioning November

Airport Works (Farrans)

- Well advanced completion Mid October

forecast

Tower Place - Newhaven

- Tenders returned and under evaluation

- Works expected to commence October

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# Infraco Progress

Princes Street
 69% complete

Edinburgh Park Viaduct 74%

Depot
 5.7% (currently 13 months behind programme)

Gogarburn Bridge 64%
 Guided busway 15%
 Section 7 20.6%
 Overall 8.3%
 Gogar Interchange Design 15%

Scheduled works due to commence within next week

Carrick Knowe Bridge (80.15)
 w/c 14 September (South abutment)

underway)

Russell Road Retaining Wall 4(80.15)

Hilton Car Park w/c 28 September

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# Infraco Programme

Original Contract Open for Revenue Service July 2011

Extension of time (Prog Rev 1) agreed September 2011

Sectional Completion Dates (Prog Rev 01)

1st June 2010 A (Depot) B (Test track) 1st July 2010 10th March 2011 C (Construction complete) D (Open for Revenue Service) 6th September 2011

Damages apply from these dates

(A= 20k/week, B=23k/week, C=195k/week, D=246k/week)

InfraCo Rev 2 programme submission showed OFRS of October 12 2012 rejected by tie - we believe February 2012 is deliverable but is not agreed

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# Change Requests and Risk Drawdowns (p23)

- Drawdown in period £731,675
- · Covers 9 individual items including :
  - > Contaminated material @ Russell Road
  - > Site investigation and testing
  - > Replacing mass barrier in St Andrews Sq for stakeholder request
  - > Increase to cover uplift to BSC prelims agreed at mediation
  - > Further design changes

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# **DRP** Update

- 6 items now formally in dispute, addressing themes of valuation of delivery, delays and extension of time and design development responsibilities
- · 4 commenced by tie:
  - > Hilton Car Park
  - > EOT 1
  - Gogarburn Bridge
  - Carrick Knowe Bridge
- · 2 commenced by BSC
  - Russell Road Retaining Wall 4 (was on tie's list of potential DRP's)
  - > MUDFA Rev 8
  - Expert Witness appointed to support approach to BDDI IFC disputed changes

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# **DRP Progress**

Subject	Start Date	PD Meeting	Position Papers	CEO Meeting	Referral	Decision Expected
Hilton	11/08/09	٧	٧	٧	Adjudication	11/10
EOT1	11/08/09	٧	٧	٧	Mediation	22/23 Oct for mediation
Gogarburn	24/08/09	٧	٧	٧	Adjudication	27/10
Carrick Knowe	25/08/09	٧	٧	٧	Adjudication	27/10
Russell Road	04/09/09	٧	٧	2/10		1.
MUDFA Rev 8	04/09/09	V	٧	2/10		
	Hilton EOT1 Gogarburn Carrick Knowe Russell Road	Date     Date	Date	Date   Papers	Date   Papers   Pap	Date   Papers

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# **DRP Future Tranches**

- Further tranches of items being prepared for challenge includes:
  - Earthworks
  - > Base Date Design Information (BDDI) definition
  - ➤ Haymarket (BDDI IFC issue)
  - > Shandwick Place (On-street agreement issue)
  - ➤ Baird Drive Retaining Wall (BDDI IFC issue)
  - Balgreen Road Retaining Wall (BDDI IFC issue)
  - ➤ Depot drainage (BDDI IFC issue)
  - > Track drainage (BDDI IFC issue/alignment) on multiple section

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# Formal Contractual Approach

#### Readiness and Governance

- Challenge team in place to challenge each DRP as it is prepared
- · Challenge team includes McGrigors
- · Role is to:
  - Test the strength of the case documents/arguments and identify any weaknesses
  - > Anticipate BSC strategy and counter arguments
  - > Check readiness for launch of DRP
- Authority to "activate" delegated to CEO using FCL as steering group.

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# On-Street Dispute Update

- Princes Street still progressing to completion by 28
   November
  - Measurement and valuation issues on Princes Street
     Supplemental Agreement (PSSA) being addressed with BSC
- BSC continue to refuse to start works on other on-street sections unless they secure a "Cost Plus" agreement for all works
- If the impasse can be resolved with a PSSA style approach, the next scheduled section of On-Street Works are:
  - Waverley Bridge St Andrew Square
  - Shandwick Place Haymarket
  - Leith Walk

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# DRP small signs of progress....?

- Edinburgh Park [INTC 91] estimate agreed at ~ £52k compared to first estimate of over £400k
- Works started, albeit slowly @ Carrick Knowe following issue of a Clause 80.15 instruction from tie
- Further clause 80.15 instruction issued for Russell Road Retaining Wall 4 and anticipate work commencing in October
- Work anticipated on Hilton Hotel car park from 28/09

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# **Cost Estimates**

£m	Original Budget	Updated Estimate	
Utilities (Incl risk)	57.2	60.1	
Design (Incl risk)	30.9	31.4	
Project costs (PM, Ops, CEC, TEL, Legal etc)	66.4	73.7	
Other Costs (Incl land)	34.3	36.1	
CAF (Incl risk)	58.2	58.2	
BB and Siemens (Excluding Risk)	245.5	248.6	
Other Infrastructure Costs	6.2	6.2	
Unspent or uncommitted risk not included above	13.3	10.2+X	
Total Ph1a	512.0	524.5+X	

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# Costs & Funding

- Cumulative spend to date £278m on Ph1a plus £6m consequential to Ph1b postponement
- Transport Scotland report continues to report outturn of £527m for Phase 1a but highlights uncertainties in the same manner as the Council report of 20th August
- Reported forecast outturn for the current year for Phase 1a reduced from £150.1m to £119.7m reflecting tie's best judgment of what will be achieved in the circumstances of the commercial disputes.
- Transport Scotland being kept fully appraised of this and further sensitivities.

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# **Trams Progress**

- · 9 trams in production;
- 1 tram in factory acceptance test:
- test track running planned for Jan/Feb 2010;
- delivery planned for April 2010 to Edinburgh
- Press trip held this week



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# **Building the Brand**

- Leith Walk joint task force with CEC Economic Development and OFB will promote area under "I love Leith" brand
- Highly successful integrated approach with summer festivals, similar 'one-family' approach for Winter and Hogmanay
- Improved business support signage and enhanced overall communications processes through account management teams in key areas
- Regular engagement programme with stakeholder communications teams
- · Successful online and social media updates and information
- Improved direct contact with communities through Account Management Teams
- Tighter internal processes for community notifications of variations from scheduled work and other issues
- · Leith Business Centre premises identified, funding still in discussion

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Operation Preparedness
23 September '09

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Slide One: Good Afternoon,

As Transport Convenor and on behalf of the City Council a big welcome. The purpose of the workshop is to give you an insight into the work that's being put into to providing a modern, integrated public transport system in the City. I'm joined by my colleague Alastair Richards Managing Director of Edinburgh Trams who will give you the benefit of how the integration of trams and buses in Edinburgh will work.

I appreciate that some of you will have picked up from the media in the last few week that we are experiencing a dispute with the infrastructure construction contractor. Unfortunately, because this is a commercial dispute I will be unable to go into any detail concerning the underlying reasons for this dispute. However, what I can tell you is that both the City Council and tie are working strenously to resolve this dispute.

		Workstrean	n status	
Topic	r Vitle	Scope	Outcomes to be arbieved	Progress
La	Operations and Engineering	integrated real time network passenger information system; possible co-location	Rules and procedures for both operations and maintenance will be guit in place covering safety.	Arrivity scheduled.
		and entegration of control scores with bus, cry traffic and then controls change of incodert insports, management and involuptions are tregasord time-tables; object there is a link in integrated stricting but their as to be reviewed under a	quality and environment management systems.  Technology integration between the common bus and them systems as far as practicable.	meo contract review
		reparate high(.)	Real time passenger information evallable throughout the network.	imagicanti act review underway.
			A co-social/ordegrated control room for bus, train and traffic management.	Octared meeting scheduled.
			An integrated near, comprising members of staff from multiple regentations.	Good progress.
35	(T/Nach office	Combined network of bus and trans III back office.	A back office (if infractivations that is fit for purpose and delivers the business needs.	Meeting to clanify fluoriness progurements going forward to be arranged.
			An integrabed team sharing information and best practice alloss the one-family of organisations	Cetalind technical investing to be scheduled
le	Printed Passenger Information	Integrated printed netwick passenger information	One set of network passenger information for distribution to the public including conditions of	Orafts underway.
			carriage, timefable, noute may, fares and ticketing products.  A corretion reducek information mag/pooter for stops	Draft ocneept being
			An additional minde specific poster for stops?	developed. Draft concept being
			identify what printed information could be displayed ahead of opening, og at support of testing	developed.
			and commissioning.	shops and rampus- imenths before opening.
-	G - 142 - 03		An integrated team, comprising members of staff from multiple segantiations.	Good progress.
*	Recruitment and Training	Manning how and on what ferms and conditions staff will be recruited and have they will be trained for the integrated network.	Establish the requirement plan for the integrated network.	Views exchanged, enganspetion discussion to be scheduled.
			Establish the serror and conditions.	Views exthanged, technical details to the progressed.
			Review and agree on the training plan,	Views exchanged:
	Review of Final Design	Unauting that the design of the systems meet the functional requirements of the indegrated operating nativors. Through this involvement, for all parties to gain	Gain installedge of the systems to be delivered as part of the project.  An integrated sean, comprising members of staff from multiple organizations.	Good progress.
4	Commissioning, Handover and Asset Stewardship	Ensuring that the delivered system achieves the functional requirements of the integrated operating network. Through this involvement, for all pacties to gain	Take powership of the systems to be distremed as part of the project.  An integrated acceptance been, comprising members of staff from multiple organizations.	Start acrowed. Princes 51 agreed as
9	Benefits Restration Flaming	swinership of the systems that we to be installed and commissioned.		first example. Workshop scheduled.
8	Branding and Marketing	Planning how the evolution of the Lothian Buses brand and the emergence and devalopment of the Edinburgh Trams brand combine for the integraced network.	Gain a commiss understanding of how the Julian Buses bland is to evolve.	Good oversteen grounded.
	dependence of the consequence opinion and the integration relation	Establish the brand values for bondurgh frams.	Draft brand wilves, grodyced.	
			Flan how comban Buses and Edinburgh Trans crants interretine to amiete the integrated network.	Agreed in principle for use colours) to link various elements of the
7	Stylem Reverses Management Orsaumig that the revenue management across the bus and iran Integrated instructs in sometics for the passenger and officers for the business at collecting	Agreement on the specification of the bicket mathines and back-office to be procured as part of	meturock together.	
		THE CONTRACTOR OF THE PROPERTY	enchanged.	
		and reconciling the revenue.	A joined up commercial strategy for revenue and fares.	Separate meeting to be arranged.
			An integrated team charry information and best practice attenuable one-damily of organizations	
	Conveniencing Power Procurement	Discring that the commissioning power is obtained by smart procurement, inversaging off the one-family purchasing power.	Agreement placed offering best value for the supply of electricity in time for commissioning	Agreement to promple reached.
			An integrated feam change information and best practice acres; the one-family of organisations.	Good puogress

# Key actions taken and outcomes achieved



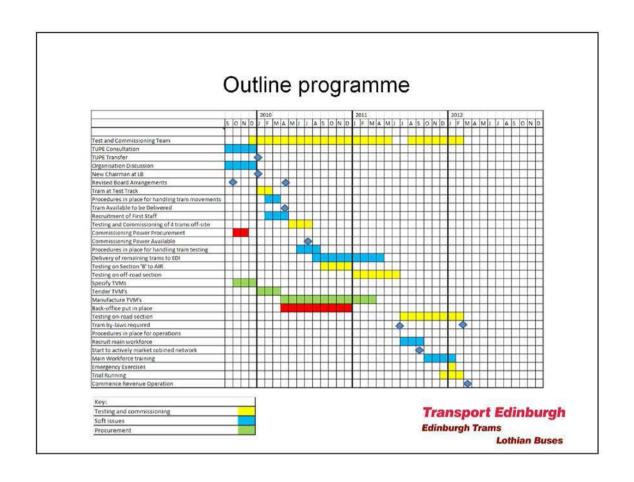
- Transdev informed of intent to terminate DPOFA in agreed manner.
- Agreement in principle for unifying colour linking network elements:
  - Take forward on Princes Street.
- Agreement to multi-organisation team to manage tests/commissioning/acceptance:
  - Re-opening Princes Street first challenge.
- Agreement to bring in limited key additional specialist resources.
- First round of workshops has provided::
  - Better visibility across organisations.
  - Understanding timescales & activities.

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# Key actions still to take

- · Agree resources required to be deployed
- · Agree on organisation structure
- · Agree on employer organisation for TUPE transfers and recruitment
- · Agree on governance for key decisions

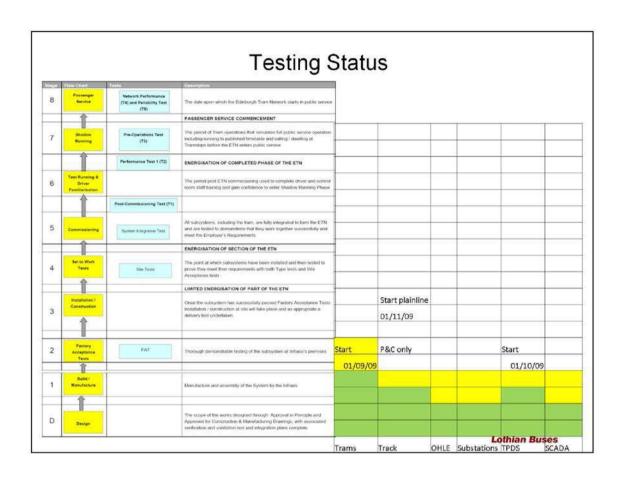
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# Description of the Acceptance Tests

Test Name	Test Description	Programme
Post Commissioning Test	To demonstrate that each Section of the ETN in sequence is able to perform in an acceptably safe manner and deliver the required run times. This is the gateway test to driver training.	Post Commissioning Test immediately follows successful commissioning of each section and is required for progressing to Driver Training.
Performance Test 1	After Phase 1a is complete and has passed Test T1, this test demonstrates that Phase 1a is able to perform satisfactorily before starting the three-month Shadow Running period. This is the gateway test to shadow running.	Performance Test 1 will immediately precede the Shadow Running period and is a requirement for progressing to this phase of the programme.
Pre-operations Test	The test covers a seven day period during the latter part of the Shadow Running phase of the programme using the initial 6/12 tph service timetable.	Pre-operations Test shall immediately precede the Service Commencement Date.
Network Performance Test	The Test is carried out over a 28 day period in Passenger Service to establish that the ETN can reliably operate.	To be completed within twelve months of the Service Commencement Date.
Network Reliability Test	Reliability Testing of key sub- systems in Passenger Service.	To be completed within twelve months of the Service Commencement Edinburgh Date.
	Post Commissioning Test  Performance Test 1  Pre-operations Test  Network Performance Test  Network	Post Commissioning Test  To demonstrate that each Section of the ETN in sequence is able to perform in an acceptably safe manner and deliver the required run times. This is the gateway test to driver training.  Performance Test 1  Performance Test 1  After Phase 1a is complete and has passed Test T1, this test demonstrates that Phase 1a is able to perform satisfactorily before starting the three-month Shadow Running period. This is the gateway test to shadow running.  Pre-operations Test  Pre-operations Test  The test covers a seven day period during the latter part of the Shadow Running phase of the programme using the initial 6/12 tph service timetable.  Network Performance Test  The Test is carried out over a 28 day period in Passenger Service to establish that the ETN can reliably operate.  Network  Reliability Testing of key sub-

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# Resource implications

- · External project engineer for ticket machine specification;
- Appoint internal project manager for ticket machine procurement;
- · External contract resource for test and commissioning;
- · Consider external resource for support to electricity procurement timing and demand;
- · Internal working group for organisation planning and management of change with External facilitation support;

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# **Building the Team**

Bonus Plan

Individual and collective consultation is underway Follow up meeting to be held 2 November.

· Operational Effectiveness Model

Behavioural workshop held with Exec

- Behaviours agreed
- Self and peer assessment
- Action plan

Feedback session on 2<sup>nd</sup> November.

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# **Building the Team**

# OEM

Exec members are in the process of rolling out the OEM to the wider organisation.

### Objectives

First draft of objectives for the Executive team will be complete this week.

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