

Edinburgh Trams

Lothian Buses

Tram Project Board Report on Period 4 Papers for meeting 29th July 2009

10:00am - 1:00pm following the tie Board meeting

Distribution:

Members and attendees

David Mackay (Chair)
Marshall Poulton
Bill Campbell
Steven Bell
Kenneth Hogg
Cllr Ian Perry

Cllr Phil Wheeler Stewart McGarrity Cllr Allan Jackson Cllr Gordon Mackenzie Brian Cox Peter Strachan Donald McGougan Richard Jeffrey Dave Anderson Graeme Bissett Alastair Richards Neil Scales Alasdair Sim (minutes)

In addition - for information only

Cllr Maggie Chapman Andy Conway Norman Strachan Iain Coupar Susan Clark Cllr Tom Buchanan Frank McFadden Alan Coyle Gregor Roberts Dennis Murray Ailie Wilson Jim McEwan Gill Lindsay

TRAM PROJECT BOARD

Transport Edinburgh Edinburgh Trams

Lothian Buses



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Transport Edinburgh Edinburgh Trams

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☐ Yes

Agenda Tram Project Board Brunel Suite – Citypoint, 2nd Floor

29th July 2009 - 10.00am to 1.00pm following the tie Board meeting

Attendees:

David Mackay (Chair)

Marshall Poulton

Bill Campbell

Stewart McGarrity

Steven Bell

Clir Allan Jackson

Clir Gordon Mackapaia

Noil Scales

Kenneth Hogg Cllr Gordon Mackenzie Neil Scales

Cllr Ian Perry Brian Cox Alasdair Sim (Minutes)

Apologies:

- 1 Review of previous minutes and matters arising
- 2 5 Key Business Priorities

(Richard Jeffrey)

2.1 Building the Tram

(Steven Bell)

- Project Director Progress Report Period 2
- · Change Requests & Risk Drawdown (paper in pack)
- TRO update (paper in pack for noting)
- Environmental Insurance (paper in pack for noting)
- 2.2 Getting Ready for Operations (paper to be provided) (Alastair Richards)
- 2.3 Building the Brand (paper in pack)

(Mandy Haeburn-Little)

2.4 Building the Team (paper in pack)

(Gordon Rae)

2.5 The Future of tie

(Richard Jeffrey)

- 3 Strategic Options Review
 - Strategy (paper in pack)
 - FCL Committee authority (papers in pack)
- 4 Health & Safety Update
 - Deliver the Tram Safely
 - Deliver a Safe Tram
- 5 Risk Register Update
- 6 Date of next meeting 26th August 2009
- 7 AOB

☐ Yes ☐ No

Edinburgh Tram Network Minutes

STRICTLY PRIVATE AND CONFIDENTIAL

Tram Project Board

8th July 2009 (10:00 to 12:45)

tie offices - Citypoint II, Brunel Suite

| Members: | | | |
|-----------------------|----------|--|------|
| David Mackay (Chair) | DJM | Donald McGougan | DMcG |
| Cllr Gordon Mackenzie | GM | The Contract of the Contract o | 1 |
| Richard Jeffrey | RJ | | |
| In Attendance: | Y-1 | | - V |
| Steven Bell | SB | Cllr Allan Jackson | AJ |
| Brian Cox | BC | Andy Conway | AC |
| Graeme Bissett | GB | Stewart McGarrity | SMcG |
| Peter Strachan | PS | Alastair Richards | AR |
| Kenneth Hogg | KH | Neil Scales | NS |
| Cllr Ian Perry | IB | Gill Lindsay | GL |
| Jim Inch | JI | Mandy Haeburn-Little | MHL |
| | l noods. | Alasdair Sim (minutes) | AS |

Apologies: Cllr Phil Wheeler, Dave Anderson, Bill Campbell, Marshall Poulton

| 1.0 | Introduction, Review of Previous Minutes and Matters Arising | |
|-----|--|--|
| 1.1 | DJM welcomed the participants to the meeting and acknowledged the apologies before introducing Mandy Haeburn-Little to the meeting in her role as Customer Services and Communications Director. | |
| 1.2 | DJM reported that the planned Site Visit has been postponed to a future Board meeting to be confirmed. | |
| 1.3 | In the absence of Bill Campbell, the Service Integration discussion will be rescheduled to a future Board meeting. | |
| 1.4 | Informal discussions with Scottish Government officials have indicated that TEL have taken a reasonable position in assuming that the Concessionary Fare scheme would be appropriate for the purposes of the TEL Business Plan. | |
| 1.5 | Point of clarification on item 7.2 of the previous minutes; RJ reported that Gordon Rae has been appointed Interim HR Director, a role which he will be undertaking on a part-time basis. | |
| 1.6 | The minutes of the previous meeting on 03/06/09 were approved. | |
| 2.0 | Change Requests and Risk Drawdown | |
| 2.1 | The Project Change Control Update Paper for Period 3 was presented. The items reported within the paper fall within the Project Director's delegated authority and a sum total of £226,042 has been drawn down from the Risk Allowance in Period 3. <i>The paper was approved.</i> | |

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| | | □ No |
|-----|--|------|
| 2.2 | A notification of an impending change for £100K to be split 50/50 between CEC and tie was discussed. This funding to cover additional information and pedestrian signage, resource in the form of 'tram ambassadors', cleansing services and other initiatives aimed at smartening up targeted areas within the | |
| | City Centre during the period of the Festival. A more detailed breakdown for this will be presented to the Change Panel on 08/07/09, and further details of these proposals will be presented at the next TPB. | MHL |
| 3.0 | Building the Tram | |
| 3.1 | HSQE | |
| 0.1 | SB presented an overview of progress during Period 3. No reportable accidents in the period and a reduction in the rolling AFR to 0.28. SB referred the Board to Section 6 of the Board Papers highlighting the fact that the first set of 'Deliver a Safe Tram' metrics data is now under review and there is a particular focus on Interdisciplinary Check Assurance from BSC. | |
| 3.2 | Project Delivery (Utilities) SB reported that 77% of utilities diversions now complete. Carillion works continue be slower than programmed, with justification in some areas, and in others down to poor performance. He noted that that BT and SGN works are however progressing on or ahead of schedule. The Section 7 contract has been awarded to Farrans, who are now on site and on programme. It was noted that the cost for these tendered works is less than that budgeted for Carillion. A tender is out for the utilities works in Sections 1A/3 and 1A/4 and interest for this work is strong. Expect to award the tender around the end of July, but not without the approval of the TPB. A process has been agreed with Carillion for addressing their measurement applications with further engagement planned this month on the delay and disruption approach being taken by CUS. The impact of this has been assessed, and risks identified within the overall cost review. SB noted that tie consultations with tie MUDFA staff on transfers or redundancy matters had started on 24 June. | |
| 3.3 | Communications & Public Perceptions MHL presented a summary of her thoughts to the Board on public perceptions on the project, and on the internal behaviours within the organisation. MHL referred the board to the Paper on Building the Brand which lays out the strategy to change these perceptions/behaviours. An example of this has been the recent engagement with the Leith Business Association where two construction options were presented for discussion. Option 1 was based upon the original construction methodology proposed by BSC and the other incorporated more significant traffic management and larger worksites, which could have the potential to accrue time (9 months) and financial (approx £1.2m) benefits. There is the potential for significant disruption on local business under option 2, and following the debate with the business community, the decision was taken to forego the potential project benefits and follow the original option in recognition of the local business concerns. | |
| 3.4 | Spend & Progress to Date SB reported the spend in Period 3 has been £8.2m against the year to date of | |

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£23.4m. The expected outcome at the end of the 09/10 financial year is £150m. The total spend to date against the available funding is £254m. Significant highlights are:

Princes Street

- Works are currently on plan for completion in November 2009, with OHL bases, track form and road reconstruction all underway.
- Phased return of sections for pedestrian access planned to be available from early August
- Festival mitigation planning completed with CEC
- Cost out turns still forecast in line with original assessment of liabilities
- Weekly review/challenge with BSC on actual resource returns to ensure fair value.

Depot

- Earthworks still ahead of schedule
- About to move into delay over issues related to design and changes affecting the depot building
- Proposals to resolve have been made by tie

TRAMCO

- Still ahead of programme with 7 trams under construction and taking shape
- Factory Acceptance Test (FAT) due on Tram #1 in September
- There may be an opportunity to test Tram #1 on the Croydon system
- Nearly 100,000 people have visited the mock-up

Leith Walk

As indicated in Section 3.3 above, the works on Leith Walk will be undertaken according to the original methodology, which minimises impact on the local businesses – albeit over a longer timeframe.

3.5 Relationship with BSC

RJ summarised progress on the strategic options workstreams over the past three months, noting that that whilst the Princes Street Supplementary Agreement had allowed the Princes Street works to get underway, the process encompassing the Project Management Panel (PMP) has not been a success in resolving the core outstanding issues of contention.

This led to an intensive week of mediated engagement which commenced on 30/06/09. The key focus of the mediation was commitment by all parties towards the resolution of the core commercial and delivery challenges.

The key issues resolve around:

- The interpretation of key clauses in the pricing schedule
- The pricing assumptions and differences between Base Date Design Information (BDDI) and the Issue for Construction (IFC) drawings and what would be considered 'normal design development'
- Risk allocation and substantiation of changes
- Assessment of Extension of Time 2

3.6 The Next Steps

As a result of the outcome to the mediation, RJ reported that he had met with Dr Keysberg (BB) and Dr Schneppendahl (Siemens) on 06/07/09, informing the consortium senior representatives that the project may have little option but to pursue a more formal route to reaching a resolution.

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| | | □ No |
|----------|---|------|
| | RJ outlined 4 options for consideration by the Board; these being: | |
| | Negotiated settlement with BSC | |
| | Formal contractual approach – DRP & other contractual mechanisms. | |
| | Reduce/rephrase BSC scope | |
| | End the BSC Contract | |
| | The recommendation for the Board to consider was to follow the Option (2) | |
| | route and enter formal Dispute Resolution under the terms of the contract. | |
| | The Board agreed to the principle of Option (2), but would require more | |
| | information before the formal notices are issued to BSC. | |
| | SB noted that preparatory work has been ongoing to identify and prepare | |
| | matters that could be brought forward to formal DRP. This is being looked at | |
| | from a legal, technical and process perspective and would be available for | |
| | presentation to the Board within a 2 week timeframe. | |
| | SB and RJ emphasised that the DRP approach is two-way and that BSC are | |
| | equally entitled to act following the mediation process. | |
| | SB to advise on delivery of the DRP proposals with a view to further | |
| | consideration by the Board, noting that the holiday season is upon us. It was | |
| | however generally agreed that swift action is necessary. | |
| 3.7 | Discussion | |
| | DJM invited comment and a general discussion with input from a variety of | |
| | Board members took place. Key actions from this discussion were: | |
| | JI to organise a briefing session with the Group Leaders at CEC. | JI |
| | JI noted that a report is currently in preparation for the August Council | |
| | Meeting and that he would require key information relating to possible | |
| | cost/scope implications for this document. tie to consider the pros and | SMcG |
| | cons of providing a range of possible outcomes in advance. | |
| 4.0 | Preparing for Operations | |
| 4.1 | AR presented a series of slides on the TEL Business Plan which is currently in | |
| 13455003 | draft and will be presented to Council on 20th August. The updated plan | |
| | includes forecasts based on current Lothian Buses patronage and the | |
| | assumptions around the economic downturn. The forecasts presented | |
| | included abstraction of passengers from bus to tram and up to 20% of | |
| | passengers utilising the concessionary fare – this being based upon actual | |
| | values. AR confirmed that the patronage forecasts were based upon an | |
| | independently validated multi-modal transport model. | |
| | RJ reported that a FOISA request for the updated TEL Business Plan had been | |
| | rejected. | |
| 5.0 | Building the Brand | |
| 5.1 | MHL presented a paper on outlining the evolution of the tram/tie brand, which | |
| J. 1 | includes the restructuring of the previous corporate affairs team. MHL set out | |
| | the proposals for a structured, twin track approach aimed at improving public | |
| | awareness, and identifying and focussing on customer areas where particular | |
| | residents or businesses are likely to experience particular issues as a result of | |
| | construction activities. This 'reboot' will include much improved signage and | |
| | information in the form of billboards across the route, inclusive and reliable face | |
| | i microrancio di tre della cita di cimpositos scross the todie. Inclusive sno relisole tsce l | |
| | 1700 | |
| | to face contact/communications, fortnightly information notices in the Evening | |
| | 1700 | |

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| | | LI NO |
|----------------|---|-------|
| | respective communication teams. | |
| | GMcK recognised the cultural changes underway noting in particular media | |
| | handling in recent times. DJM expressed his thanks to MHL and noted that | |
| 6.0 | further updates to the Board will be presented in the future. Governance | |
| 6.0 6.1 | (NOTE (NOTE (NOTE) TO DESTRUCT NOTE (NOTE) | |
| 6006003 | JI reported that a report on Governance is in draft and will be presented to the August 20 th Council Meeting. Discussion on the detail will be undertaken between the concerned parties in advance of the release of the report, and that presentation will be made at the next TPB meeting. KH expressed his concerns over the time that the governance matters have taken to reach conclusion, noting that it will be essential in the coming months that the correct and appropriate structures are in place. | JI/GL |
| 7.0 | Building the Team | |
| 7.1 | RJ presented a paper to the Board setting out his strategy for tie as an organisation, highlighting a framework for the organisational effectiveness model incorporating both Corporate objectives, vision and strategy, with the day to day running of the organisation encompassing values and behaviours, processes and systems, structures and infrastructure and the key ingredient; the people. RJ foresees regular updates to the Board on the core corporate matters, with the running of the organisation residing with the executive team. Key Exec Team members have been allocated areas of responsibility within the 5 Key Strategic Teams; these being: Build the Team (Gordon Rae) Build the Brand (Mandy Haeburn-Little) Build the Tram (Steven Bell) Preparing for Operations (Alastair Richards) The Future of tie (Graeme Bissett) Stewart McGarrity will continue to be responsible for the Finance, ITC & Legal function. | |
| 8.0 | The Future of tie | |
| 8.1 | No updates were presented. | |
| 9.0 | Sub-committee updates | |
| 9.1 | No updates were presented. | |
| 10.0 | AOB | |
| 10.1 | No further matters were discussed. | |
| 10.2 | DJM thanked the Board for their participation and input, and the meeting closed at 12:45. | |
| 11.0 | Date of Next Meeting | |
| 11.1 | The date of the next meeting will be Wednesday 29 th July 2009. | |

Prepared by Alasdair Sim on 13th July 2009.

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2.1 Project Directors Report

Period 4 09/10

HSQE

| Project Running Totals | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | МОР | AFR | SFR |
|------------------------|-------------|-----------|-------|--------|------------------------|-------------------|-----|-----|-----|-------------|-------|
| Period | 133,001 | 0 | 1 | 2 | 8 | 15 | 0 | 1 | 5 | 0.75 | 11.28 |
| Year to Date | 547,380 | 0 | 1 | 12 | 62 | 49 | 0 | 4 | 19 | 0.18 | 8.95 |
| 13 period rolling | 1,536,764 | 1 | 4 | 36 | 206 | 194 | 3 | 17 | 90 | 0.33 (0.26) | 12.62 |



An accident occurred outside a Carillion site during period 4. An 82 year old woman fell after catching her heel on a temporary ramp on a pavement. This has been classed as a reportable accident by Carillion but was not directly as a result of the construction activities. Taking this into account, the Accident Frequency Rate rises to 0.33, however, if this accident is "ruled out" as it was not as a result of construction works, the AFR remains at 0.26. A joint investigation is underway by Carillion and **tie** with a focus on the temporary pedestrian ramps and where they should be used.

Service strikes have decreased slightly over-all during Period 4, however, they have increased for BSC. **tie** are reviewing the last 4 service damages for trends and will report any findings. Project Manager Inspections for MUDFA have been 100% of those planned, however, the joint inspection process for Infraco between **tie** and BSC has proved more difficult to achieve the 100%, with 7 out of 8 inspections completed.

tie have reviewed the past 12 months MOP incidents and have identified particular risk areas that will be given specific focus with our contractors prior to the Edinburgh Festival. The main areas to be targeted will be adequate reinstatements and boundary fencing.

Progress

From 29 June and 6 July intensive mediation was held between **tie** and the BSC Consortium to try and resolve key differences which have been stalled within the Project Management Panel.

Potential solutions were thoroughly explored (and remain under discussion), however it is very disappointing to note that no acceptable overall agreement was reached on the substantive issues.

Transport Scotland and CEC were briefed in detail on the outcome of the mediation and the subsequent 8 July Tram Project Board review and agreed actions.

A further update will be provided to Transport Scotland in early August following the 29 July Tram Project Board and informed by the preparations for the City of Edinburgh Council meeting on 20 August.

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The cost, programme and risk information in this period 4 report continues to be based <u>unapproved</u> forecast on the information reported in May 2009. This will be updated once the above actions are progressed.

Overall progress remains behind the master programme, primarily due to:

- Finalisation of the agreement of change delaying the commencement of work;
- Incomplete utility diversions in the On-Street sections caused in part by traffic management constraints;
- Slow mobilisation of INFRACO, including lack of formal sub-contracts being in place;
- Failure of INFRACO to submit preparatory paperwork in a timely manner i.e. Work Package Plans, Method Statements etc:
- Requirement for re-design of temporary works;
- Design slippage since novation of design to INFRACO (now recorded in v46 of the design programme);
- · Design changes as a result of the Prior and Technical Approvals process; and
- Consortium integrated design programme and validation

The **tie** live programme currently predicts an Open for Revenue Service date of September 2012. This has slipped slightly since last period and is mainly due to the lack of progress being achieved by INFRACO across the route compounded by delays caused by utility diversions at Haymarket and Newhaven.

Agreement of a revised programme is one of the key priorities for the PMP and this was one of the key discussion topics at mediation. Discussions on programme revision and potential extension of time awards to BSC are continuing during Period 5. It is one of the remaining significant differences between the parties.

As for the previous period reporting **tie** retain an <u>unapproved</u> recalibrated baseline programme which reflects an Open for Revenue Service date of 23 Feb 2012.

Progress - Design

No new submissions have been lodged in the period, but 2 technical approvals have been granted in Period 2. A summary of Prior and Technical Approval progress is presented below:

| Phase 1a only | Numbe | r required | Number | | |
|---------------------|-------|------------|-----------|----------|--|
| | v31 | v46 | Submitted | Granted | |
| Prior Approvals | 49 | 54 | 51 (94%) | 50 (93%) | |
| Technical Approvals | 71 | 83* | 77 (93%) | 71 (86%) | |

^{*3} additional TAA added in V46

Although there is evidence of better management of SDS by BSC, this has not yet resulted in improved design performance. The approvals task force has been supplemented by a Design Progress and Design Issues meeting to provide additional management focus on design resolution. V47 includes a number of design integration activities and the impact of these will be analysed over the coming period – it should be noted that this is a consortium issue to manage and **tie** will provide support in this respect. **tie** has implemented an extensive programme of site based monitoring to validate & verify the installation of works in line with an integrated design assured construction. See section 6.3 for amplification.

Progress - MUDFA

Progress on MUDFA works during Period 4 is presented below:

| Rev.08 Figures | Period | | Delta | Cumulative | | Delta |
|--|--------|--------|-------|------------|--------|--------|
| MUDFA PERIOD 08 PROGRESS | Plan | Actual | | Plan | Actual | |
| Section 1a Newhaven to Foot of the Walk | 10.0% | 1.3% | -8.7% | 52.9% | 43.0% | -9.9% |
| Section 1b Foot of the Walk to McDonald Road | 0.1% | 0.0% | -0.1% | 100.0% | 99.9% | -0.1% |
| Section 1c McDonald Road to Princes Street West | 2.0% | 4.0% | 2.0% | 94.9% | 84.8% | -10.1% |
| Section 1d Princes Street West to Haymarket | 2.3% | 1.9% | -0.4% | 99.6% | 94.7% | -4.9% |
| Combined Sections 1A-1B-1C-1D (On-Street) Newhaven Road to Haymarket | 4.3% | 1.8% | -2.5% | 82.8% | 76.1% | -6.7% |
| Section 2 Haymarket to Roseburn Junction | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 5a Roseburn Junction to Balgreen Road | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |

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| Section 5b Balgreen Road to Edinburgh Park Central | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
|---|------|------|-------|--------|--------|-------|
| Section 5c Edinburgh Park Central to Gogarburn | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 6 Gogar Depot | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 7a Gogarburn to IPR | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 7b IPR – Edinburgh Airport | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Combined Sections 2A-5A-5B-5C-6A-7A (Off-Street) Haymarket to Edinburgh Airport | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| FULL ROUTE PHASE 1A NEWHAVEN ROAD TO EDINBURGH AIRPORT | 3.5% | 1.5% | -2.0% | 85.8% | 80.1% | -5.7% |

Key points to note are:

- Progress in the period has been slower than planned in those sections that MUDFA are working. These
 poor productivity and performance levels can be attributed in part to underground obstructions and
 technical issues.
- Good progress was made with the gas diversion at The Mound. Gas that remained in the 120yr old main after the diversion was burned off in a controlled manner;
- Utilities diversion works for Sections 7 have been awarded to Farrans and Section 1A are now out to tender. These works are not being carried out by Carillion;
- Section 1B: tie ins, cabling and abandonments are scheduled for completion during July and August 2009,
- All utilities works are complete in Sections 2, 5a, 5b, 5c and 6 are now complete.

Progress - INFRACO

The project continues to experience problems with slow progress for INFRACO works and, in particular, the appointment of direct BSC resource and the final appointment of the main package contractors. The BSC subcontractors continue to operate with Limited Letters of Intent whilst awaiting conclusion of the full subcontracts. Finalisation of the agreement of change- Base Date Design Information (BDDI) and IFC is delaying the commencement of work at Haymarket viaduct, Russell road bridge, Carricknowe bridge, Depot building and Tower place bridge.

The work has continued on a number of worksites including:

- Princes Street Track form, Track welding and OLE bases are progressing in both the east and west parts
 of the site. Track has been laid virtually throughout the length of Princes Street from South Charlotte St
 to Frederick St although the majority has yet to be levelled and welded;
- Earthworks between Balgreen Road and Carricknowe bridge;
- Trial holes at guided bus way section;
- A8 underpass combined phase 1 & 2 programme has now been adopted. The Temporary Traffic Diversion completed. BSC are progressing with the site clearance;
- Edinburgh Park Station Bridge: BSC continued to work on diaphragm wall construction and deck slab reinforcement;
- At Gogarburn Bridge poor concrete quality has led to replacement piers being constructed at this location, and
- Depot Earthworks have not recommenced since 23 June. Further excavation will commence on BDDI to IFC Change agreement. The agreed total to date is 107607 cubic metres out of a total expected 141000 cubic metres (76%).

Progress is being monitored against the Revision 1 programme, and the summary milestones against the agreed INFRACO Contract are shown below:

| Milestones | Period 04 | | Cumulative (Short-Term) | | Contract |
|--------------|-----------|--------|-------------------------|--------|----------------|
| | Planned | Actual | Planned | Actual | Planned to P04 |
| Prelims | 2 | 2 | 48 | 48 | 48 |
| Construction | 4 | 2 | 37 | 35 | 544 |

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Progress - TRAMCO

Good progress continues to be made with the progress of deliverables against the schedule. The production line has commenced during Q1 2009 with the delivery of the first tram still on schedule for April 2010. 7 trams are currently in the fabrication stage.

Progress - Testing & Commissioning

The process for acceptance of the Edinburgh Tram is designed to ensure that it is delivered in an acceptably safe, compliant and efficient manner. This process is undertaken via the testing and commissioning regime to validate and verify the system against applicable standards. To this end, a number of processes are underway including:

- · Design Assurance. This process being undertaken by BSC(SDS)/tie
- Quality Checking: 10 of the 37 BSC inspections and test plans are in progress
- Systems Safety: Safety verification plans are in place and this process of verification is underway with INFRACO, the ICP, TEL and Transdev all involved in the process.

BSC have produced Inspection and Test Plans (ITP's) for the current set of construction works, however they have not yet produced a consolidated Test and Commissioning Plan. Constituent elements are available from CAF, the tram manufacturer, the Operator and an overall framework from TEL exists to cover the activities.

It is intended over the next three periods to obtain collective engagement on testing and commissioning, and agreement to the formation of a project wide multi-disciplinary test coordination team.

Progress - Interface with 3rd Party Projects

tie and CEC identify other projects ongoing within the City that may impact on the tram project. This is reviewed on an ongoing basis both internally and with TS, to identify any conflicts and mitigations. The key projects to note in this regards are:

- The Gogar Surface Station promoted by Transport Scotland. Design changes have been instructed and are underway and tie and TS are developing an integrated programme for these works.
- The redevelopment of the St James Centre, which has been downgraded from red to amber in the period
 as commencement for this project is expected to take place towards the completion of the tramworks.
- CEC/tie and NR are currently in discussion over agreeing a process to accommodate traffic management arrangements for the construction of the Waverley Steps following withdrawal of the objection to the TAWs order.

Progress - Other

- A TRO programme is in place to ensure that the first order TRO 1, which will allow for operation of the tram system, is made by October 2010. The informal consultation process for this has been completed and BSC have been instructed to incorporate minor design revisions into the final design. Delivery of a set of TRO drawings is scheduled for August 2009 which will enable the statutory consultation process to commence.
- Traffic management planning ongoing for Princes St Phase 3, Haymarket and Picardy Place.

Network Rail

- INFRACO has now delivered its EMC Management Plan and EMC Strategy for NR infrastructure assets and established the scope for the immunisation works. A programme for these works is being developed with INFRACO, and
- INFRACO are developing the full assurance case for NR acceptance. The preliminary assurance case to
 enable traction power testing and commissioning will be completed by August 2009. Further assurance will
 be provided up to, and including, bringing into service.

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Third party interfaces

- NR the Bridge Agreements are not yet concluded. There is an outstanding issue on indemnities to close out. CEC are taking this matter up directly with TS. An Operating Agreement draft has been returned to NR on 26/06/09;
- Forth Ports expecting imminent execution of agreement, awaiting FP final drafting comments prior to closure, and
- Haymarket car park compensation tie have agreed compensation with NR and will settle this in Q1 09/10.
 tie continue to discuss with TS the additional compensation payable to First ScotRail, as a result of the extension of the FSR franchise from Nov 2011 to Nov 2014, as it is believed to be a TS cost.

Fast link modifications (Front Line) - complete.

Ancient Monuments/Statues (Land Engineering)

- Robert Burns Monument planning for removal underway, and
- The Sherlock Holmes Statue at Picardy Place was removed.

Burnside Road (BAA) - contract awarded to Raynesway Construction. Work commences 10th August 2009.

Archaeological works at Constitution Street (Frontline) - number of remains found is between 220 and 240.

Cost

Current Financial Year

- The budget for Phase 1a in 2009/10 is £150.1m which has been produced linking the tie re-baselined programme to INFRACO construction milestones. tie are currently in the process of agreeing an updated programme with the INFRACO contractor.
- In addition to phase 1a (£150.1m) 2009/10 costs, the budget also includes potential additional costs of £3.2m which relate to the postponement of Phase 1b INFRACO construction contract;
- Funding available from TS for the project in 2009/10 is £149m. The TS share of this year's budget (£153.3m) is £140.6m, giving available headroom of £8.4m.
- We have identified sensitivities to the outturn forecast for 2009/10 of £5.6m (see section 3 of the main report).

Actual YTD P4 & forecast P5-P13 FY09/10

| £m | YTD P 4 | Forecast P5 - P13,09/10 | Total FY09/10 |
|-----------------------------|------------|----------------------------|---------------|
| Infrastructure and vehicles | 19.9 | 104.6 | 124.5 |
| Utilities diversions | 5.6 | 2.2 | 7.8 |
| Design | 0.9 | 0.4 | 1.3 |
| Land and compensation | 0.6 | 1.0 | 1.6 |
| Resources and insurance | 4.0 | 9.7 | 13.7 |
| Base costs | 31.0 | 117.9 | 148.9 |
| Risk allowance | 0.0 | 1.2 | 1.2 |
| Total Phase 1a | 31.0 | 119.1 | 150.1 |

 COWD to Period 4 is £31.0m (Period 3 £23.5m) against budget £28.2m. The main drivers for the £2.8m variance are: the timing of INFRACO and Tramco costs forecast in 2009/10 (£0.8m); Offset by a fall in PM costs (-£0.5m) and MUDFA costs variance (£2.6m).

Total Project Anticipated Forecast Cost

Re-baselined Phase 1a AFC and profiling

| £m | | Actual 08/09 | FY 09/10 | FY 10/11 | FY 11/12 | AFC |
|-----------------------------|------|-----------------|-------------|-------------|-------------|-------|
| Infrastructure and vehicles | 30.7 | 45.4 | 124.5 | 108.6 | 2.4 | 311.6 |

Edinburgh Trams

Lothian Buses

FOISA exempt

☐ Yes

| Utilities diversions | 18.4 | 33.4 | 7.8 | 0.0 | 0.0 | 59.6 |
|-----------------------------|-------|-------|-------|-------|------|-------|
| Design | 21.4 | 4.7 | 1.3 | 0.0 | 0.0 | 27.5 |
| Land and compensation | 16.8 | 1.7 | 1.6 | 0.2 | 0.0 | 20.3 |
| Resources and insurance | 42.7 | 15.8 | 13.7 | 7.8 | 2.9 | 82.9 |
| Base costs | 130.0 | 101.0 | 148.9 | 116.5 | 5.3 | 501.7 |
| Risk Allowance | 0.0 | 0.0 | 1.2 | 18.4 | 5.8 | 25.4 |
| Total Phase 1a | 130.0 | 101.0 | 150.1 | 134.9 | 11.1 | 527.1 |
| Phase 1b postponement | 3.0 | 0.0 | 3.2 | 0.0 | 0.0 | 6.2 |
| Total Phase 1a and Phase 1b | 133.1 | 101.0 | 153.3 | 134.9 | 11.1 | 533.3 |

- The table above reflects the base costs and risks aligned to the re-baselined programme and realignment of the INFRACO milestones schedule. The AFC for Phase 1a above includes an <u>unapproved</u> increase of £15.1m to the project risk allowance. The <u>approved</u> cost estimate for delivery of Phase1a of the project remains at £512m. The phasing of the £527.1m plan remains in-line with period 3 and will be updated when there is an updated agreed programme with the INFRACO contractor.
- The latest forecast view includes £3.2m of costs relating to Phase 1b which may crystallise as contractually payable to BSC due to the postponement of Phase 1b (this will require to be covered by current funding). Coupled with the re-baselined forecast, there is £11.7m of funding headroom within the £545m total funding available.

Risk & Opportunity

There were six risk reviews held in the period. One item was close on the Infraco concerns register. There were two risk draw downs approved in the period totaling £2,410,908. These were for the works below the earthworks outline which were carried out under the Princes Street Supplemental Agreement and the additional cost of full depth road reconstruction at Princes Street plus the additional CEC staff costs associated with the delay in design approvals. This leaves a risk and contingency balance of £17,011,775 (based upon the approved Project Risk Allowance at Financial Close).

All existing risks, as well as those recently added, are being reviewed to ensure the QRA output is as accurate as is reasonably possible. It is accepted that the additional risks and increase in QRA output are currently <u>unapproved</u>. These are within the <u>unapproved</u> range in costs provided to TS on 26th May. **tie** will continue to report on the risk allocation at Financial Close until a new budget (with an updated QRA) is approved.

Communications/Customer Service

Media Features

- · Richard Jeffrey The Times, Scotsman
- · Tram Veterans Evening News
- · Edinburgh Park Viaduct Evening News
- Tram Mock-up was also covered in the media recently for passing the 100,000 visitor mark since it
 was put on display in late February. Interest was also generated from a gas burn off which took place
 at the Princes Street work site
- Tram TV set up have a look at www.tramsforedinburgh.com!

Customer Service

The total correspondence for Period 4 numbered 448 - a reduction from period 3. Information Requests remain the bulk of all correspondence each period with 426 contacts being recorded for Period 3. A revised organisational structure has been implemented to align customer Service Account Managers with known hotspots and Project Manager areas of geographic responsibility.

Public Information Planning

During Period 4 a total of 6 notifications were distributed to businesses and residences. The tram website recorded 9,252 in the period.

Transport Edinburgh Edinburgh Trams Lothian Buses

FOISA exempt

☐ Yes ☐ No

Logistics

Over the past 4 weeks logistics teams helped with 318 inbound deliveries to businesses in all three areas of Haymarket, City Centre and Leith Walk. The teams were also called on to help with 58 outbound deliveries.

Partner and Stakeholder Communications

tie's Primary School initiative conducted presentations to five school assemblies during the final two weeks of term before the summer holidays. Recruitment for the new Tramformers Scheme will begin during first term back at school.

Freedom of Information Requests - FOI

During Period 4 a total of 7 requests have been responded to with a further 10 requests in the process of being formulated or signed off for sending. 2 requests are currently being reviewed, with one further response being reviewed by the Information Commissioner.

Lothian Buses

FOISA exempt

☐ Yes

Change Requests & Risk Drawdown

Paper to: TPB Meeting date: 29 July 2009

Subject: Project change control update - Period 4, 2009/10

Preparer: Mark Hamill

Summary

This paper is intended to update the Tram Project Board with the current status regarding approved project change orders and their implications on the overall Tram Project Budget. To the end of Period 3, £10.6m had been drawn down from the original risk allowance of £30.3 at Financial Close. In Period 4, an additional £2.73m has been drawn down. The table below summarises the approved project changes that have financially impacted the project risk allowance since Financial Close in May 2008.

| Description | Base cost | Risk | Total |
|-----------------------------------|-------------|-------------|-------------|
| Position at Financial Close (PCB) | 481,680,811 | 30,336,196 | 512,017,007 |
| Changes to end Period 3 | 10,592,615 | -10,592,615 | 0 |
| Position at end Period 3 | 492,273,426 | 19,743,581 | 512,017,007 |
| Period 4 changes | 2,731,806 | -2,731,806 | 0 |
| Position at end Period 4 (CAB) | 495,005,232 | 17,011,775 | 512,017,007 |

Changes Approved in Period

CEC Costs - Staff Recharges (COP071 - £400k)

CEC recently indicated that, due to financial constraints, they could no longer provide the necessary support without recharging the cost of this support to **tie**. If this additional support was not provided by CEC there would be a negative impact on the programme with regards to traffic management, traffic signals and the approvals process.

Abortive Estimates (COP106 - £6,498)

This is for the cost of 'design only' estimates which did not proceed to the construction phase.

tie Contribution to Communication Within the City During Festival (COP108 - £50k)

As part of the works to improve information management and pedestrian traffic management within the city during the Festival, a cost of £100k has been identified as being required for additional people, signage and print costs. This cost is being split between **tie** and CEC.

Tram Inspector Costs (COP042 - £264k)

Both the Tram Supply Agreement and Infraco Contract have a requirement for a Tram Inspector. A profile has been forecasted which indicates the Tram Inspector will be required for approximately 316 days up to July 2011. This cost includes a day rate plus an allowance for travel and subsistence.

Infraco Risk Drawdown (COP105 - £2.01m)

This was approved by the Project Change Panel (subject to TPB approval) and is covered in a separate paper.

Decision(s) / support required

The TPB is requested to:

- 1. Note the Project Change Control status at Period 4, and
- 2. Review and approve the additional paper on the Princes Street Risk Drawdown

Edinburgh Trams

Lothian Buses FOISA exempt

☐ Yes ☐ No

Proposed Name: Mark Hamill Date: 21 July 2009

Title: Risk & Insurance Manager

Recommended Name: Steven Bell Date: 21 July 2009

Title: Tram Project Director

Approved Date:

David Mackay on behalf of the Tram Project Board

Edinburgh Trams

Lothian Buses

FOISA exempt

☐ Yes

Paper to: TPB Meeting date: 29 July 2009

Subject: Infraco Risk Drawdown

Preparer: Mark Hamill

Summary

This paper is intended to request authorisation from the Tram Project Board to drawdown £2,010,908 from the project risk allowance for the additional costs associated with the cost of work carried out under the Princes Street Supplemental Agreement. The additional cost relates to works below the earthworks outline and the extent of required road reinstatement.

Impact on programme

The extent of the works have previously been included in the programme schedule and as such there is no change to the current expected programme schedule and no additional affect to Infraco works.

Impact on budget

The figure has been included in previous AFC expectations and there is therefore no change to the previously anticipated AFC. The drawdown is required to increase the Approved Budget to accommodate the actual costs incurred to date

Risks and opportunities

This sum is to be drawn from a risk allowance which has been allocated to Infraco.

Decision(s) / support required

The TPB is requested to:

1. Formally approve the drawdown for £2.01m to cover the cost of the works which require to be carried out.

Proposed Name: Mark Hamill Date: 21 July 2009

Title: Risk & Insurance Manager

Recommended Name: Steven Bell Date: 21 July 2009

Title: Tram Project Director

Approved Date:

David Mackay on behalf of the Tram Project Board

Edinburgh Trams

Lothian Buses FOISA exempt

☐ Yes

Paper to: TPB Meeting date: 29 July 2009

Subject: Proposed Traffic Regulation Orders Protocol

Preparer: Duncan Fraser

Summary:

Introduction

The Council has been empowered by Scottish Parliament to build and operate a tram system on and off street. The Scottish Government has also approved funding for tram, subject to complying with the Council's approved business case for the project.

To operate the tram on-street the Council is required to make traffic regulation orders (TROs) to manage the inter-relationship between tram and road traffic and to ensure the efficient and effective operation of the tram system.

TROs empower the Council to enforce stationary traffic offences, such as parking and loading. The Police have exclusive powers to enforce moving traffic offences, such as no entries or banned turns.

Separately, temporary traffic regulation orders (TTROs) are being used by the Council to facilitate the construction of the tram system. These temporary powers are not considered further in this paper, as they do not form part of the final tram scheme.

It was not possible or practical at the parliamentary approval stage to make the TROs as that was before the approval of the business case and completion of the detailed design of the tram system. Indeed, it has taken 4 years to complete the complex design process from which the TROs are derived.

Importantly, it should be noted that the Council has not used their TRO powers in this way before. That is, (1) to make the TROs to implement what has already been approved by Parliament and the Council and (2) to make TROs after construction of the road works.

Because of this, the proposal is to make 2 consecutive TROs:

- TRO1 will bring forward the traffic measures necessary to allow tram to operate in accordance with its
 approved business case. Those measures have been carefully designed and modelled, tested and
 they have been shown to members of the public, whose views have been taken into account where
 possible.
- TRO2 will be processed after TRO1 has been made and implemented. TRO 2 will contain
 adjustments to TRO1. Those adjustments may have been suggested by Members or members of the
 public. But they will be properly assessed and modelled to ensure that they can be implemented
 without undermining TRO1 i.e. tram operation per business case.

TRO Protocol

tie and CEC has jointly developed a TRO protocol to reflect this approach.

TRO 1 is the result of a 4 year design process to ensure that the tram will operate safely and efficiently onstreet to meet the objectives set out in the Council and Scottish Government approved business case. The process for allowing the Council to make TRO 1 needs to be completed as soon as possible.

If possible alternatives or adjustments arise out of consideration of TRO 1, they will be taken forward as part of TRO 2, which will be brought back to Members for decision as soon as possible. This will enable suggested adjustments to be properly assessed to ensure that their implementation would not undermine tram operation per TRO 1.

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☐ Yes

TRO 2 will also deal with design impacts from the new pedestrian requirements at signalised crossings, outstanding design issues and area wide traffic impacts.

Finally, it would be prudent to monitor the road network after tram is operating. The actual operation may identify issues that need further (post TRO 2) adjustment. Those adjustments would be brought forward in TRO 3.

Thereafter, TROs would be brought forward in the usual way.

Next Steps

Statutory Consultation:

Statutory consultation on TRO 1 is planned for October 2009 and follows on from the informal consultations last autumn. This process includes consultation with the emergency services and road haulage associations to determine their views on the operational impact of TRO 1. The Council custom and practice is to engage with a wider group (29+ stakeholders) however because of the special circumstances relating to TRO1 and the need to demonstrate best value it is recommended that the Statutory Consultation is restricted to the 5 consultees required by statute.

Public Deposit:

The Council will then be asked to approve publication of the draft TRO1 in February 2010. Members of the public and other stakeholders will have the opportunity to make representation on the draft TRO 1 at this stage. The Council, through **tie**, will respond to any objections raised. It is unlikely that any changes will be recommended to the draft TRO at this stage as this would impact on the design of the tram route. Any issues that are relevant can however be taken forward and investigated as part of TRO2 process.

Report to Council:

A comprehensive report on TRO 1 is planned to be submitted to Council in September 2010. This report will address all relevant issues in detail and it will contain a recommendation on the making of TRO 1 to enable the tram to operate in accordance with its business case.

TRO 2:

After the Council make TRO 1, a report will be presented to members with suggested measures that should be taken forward for consideration in TRO 2. The TRO2 process will then follow on along the lines of TRO1 with testing of revised design, statutory consultation on amendments to TRO1 and public deposit of the draft Order. This process should be complete by the Autumn of 2011 prior to shadow running.

TRO 3

It is anticipated that further modifications to TROs may be required following the monitoring of shadow running and this would be implemented as part of TRO 3. Any further TROs would follow the Council's normal procedures for TROs.

Cost and programme impact:

Compliance with the TRO protocol will avoid any delay to operation of the tram.

There are potential cost implications for **tie** promoting TRO 2 and 3 with respect to fees estimated, however allowance has been made for this under the project risk 952. It is assumed that for budgeting purposes there will not be a hearing and that CEC would resource further TROs.

Recommendation:

To seek TPB approval for the TRO protocol.

Edinburgh Trams

Lothian Buses FOISA exempt

☐ Yes ☐ No

Proposed: Name: Duncan Fraser Date: 22 July 2009

Title: Roads and TRO Manager

Recommended: Name: Susan Clark Date: 23 July 2009

Title: Depute Tram Director

Approved: Date:....

David Mackay on behalf of the Tram Project Board

Edinburgh Trams

Lothian Buses

FOISA exempt

☐ Yes

Paper to: TPB Meeting date: 29 July 2009

Subject: Insurance for Pollution/Contamination

Preparer: Mark Hamill

Summary

In 2008 tie's insurance broker Heath Lambert Group (HLG) was commissioned to identify, evaluate and consider potential exposures, availability and costs of insurance covers for pollution/contamination liabilities that could potentially arise in the Edinburgh Tram Project (ETP).

The report identified the main pollution/contamination risks within the project and those risks which are liabilities of **tie**, liabilities resulting from contract works and liabilities resulting from unforeseen existing contamination.

The report also highlighted some potential financial protection options. These are self-funding, transfer by contract to third parties and environmental insurance. An allowance unsuitable ground conditions is included within the project risk allocation and, under the Mudfa and Infraco contracts, the contractors are responsible for incidents arising from their negligence or omissions or failure to comply with the provisions or terms of the relevant works contract.

Conclusion and Recommendations

HLG believe that the only insurance cover for **tie**'s pollution/contamination liabilities that can be considered is Contractors Pollution Liability (CPL). Insurance does not appear to be available for increased costs as a result of unforeseen contamination. These costs would be borne by **tie**. The sum in the project risk allowance would be used to fund these costs.

Within the Insurance budget is £125k for 'Environmental Impairment' insurance. This could be used to fund the cost of any policy which tie decided to purchase.

While the insurance cover would provide additional protection, any loss would potentially cost **tie** £25k as this would be the deductible on the policy. An alternative approach would be to not purchase any insurance cover and rely on the project risk allocation and the £125k set aside for Environmental Impairment to fund any additional costs resulting from pollution/contamination arising from the works.

Decision(s) / support required

The TPB is requested to:

Proposed

 To agree <u>not to proceed</u> with the purchase of any additional insurance and set aside the £125,000 for any additional costs resulting from pollution/contamination and for which tie are liable.

Date: 21 July 2009

| i ioposcu | radific. | Mark Harrin | Date. 21 daily 2000 |
|-----------|----------|--------------------------|---------------------|
| | Title: | Risk & Insurance Manager | |
| | | | |

Recommended Name: Steven Bell Date: 21 July 2009

Title: Tram Project Director

Name: Mark Hamill

| Approved | | Date: |
|----------|------------------------------------|-----------------|
| | David Mackay on behalf of the Tran | n Project Board |

FOISA exempt

☐ Yes ☐ No

2.2 Preparing for Operations

Paper to be discussed at meeting.

Transport Edinburgh Edinburgh Trams

Lothian Buses

FOISA exempt

☐ Yes

2.3 Building the Brand

tie Limited

Paper to : tie Board

Subject : Customer Services and Communications Update

Date : July 2009

This paper is intended to bring the Board up to date with progress on the main areas of activity.

Brand Themes

Work has begun with the new HR Director on Internal Brand and Values and Expectations. This will be presented to the Executive Team through the People paper.

Of interest to the Board will be the heightened attention on Leadership, Accountability and Customer Awareness. There will be ongoing updates to progress from now on.

Account Management

As explained at the last Board meeting, the Customer Response Areas will evolve and grow as the current periods of utilities work comes to an end and Tram works start.

Of particular note from the CR areas are:

Leith

- Discussions are ongoing both with Constitution Street and Leith Walk about the option to create an international food zone in this area.
- Compensation continues to be a concern for some traders at the Foot of Leith who have written directly to the Council.
- Additional activity in Leith and Constitution Street includes;
 - Preparations for site and bill boarding signage at Shrubhill.
 - Further consideration of the Business Centre concept at the Foot of Leith Walk.
 - Requests for new directional signage and promotional signage for Constitution Street.

West End Traders

Weekly meetings are now being held with representatives of the West End Village. There are a number of support mechanisms being offered to the Village including;

- · Support for the creation of a West End Village website.
- Review of brand signage.
- · Signing of perimeter areas.

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☐ Yes

St Andrews Square

An opportunity has arisen through Essential Edinburgh to cooperate on an awareness campaign
making use of empty windows in St Andrews Square during the festival. The visual used for this would
be one of the larger billboard type graphics and will be likely to run across 3 windows.

Princes Street / Festival City Centre

- Again, we are cooperating closely with the CEC on this, and with Essential Edinburgh. There will be a
 joint team of 6 information providers who will also be distributing maps for the City. These advisers will
 operate on Lothian Road at the Mound and Waverley and around the galleries.
- In addition Trams have been closely involved in the production of the maps as well as on the Fringe map.
- Joint signage is being drawn up which will include banners/signage on the Haymarket section "gateway" road.
- Both Trams and Essential Edinburgh will participate in the regular Festival Updates.

Internal Communications

This includes communications with partners:

- Meetings have been held with a range of external stakeholders. This will continue as a rolling programme.
- The Director of Communications at Lothian Buses has been invited to one of our forthcoming Customer Services and Communications team meetings in order that we can better understand their priorities.
- We have had a meeting with CEC regarding the production of regular items in support of their Outlook publication.
- CEC have offered the advice of their FOI Manager Peter Robertson, to assist with our streamlining of information.
- A new monthly Tramlines internal newsletter has been produced and distributed.
- · Our external Tram Facts sheet has also been redesigned.
- We are investigating options for participating in the Chamber of Commerce's publications and in Edinburgh Airport's publication.

Press Review

Next month we will produce an analysis of press coverage indicating the most popular requests for information

Prepared by: Mandy Haeburn-Little

Date: 20th July 2009

Transport Edinburgh Edinburgh Trams

Lothian Buses

FOISA exempt

☐ Yes

2.4 Building the Team

tie Limited

Paper to : tie Board

Subject : Building the team

Date : July 2009

This paper outlines the progress to date and the planned next activity on embedding the Organisational Effectiveness Model (OEM) which was referred to in June's Board paper.

Gordon Rae has joined the senior team in a short term role as Interim HR Director, to help design and manage the OEM programme and to ensure best practice across the key HR policies and procedures.

Purpose and Vision

A draft Purpose statement has been created focusing on completion of tramline 1a. This will be signed off by the exec team on RJ's return from holiday.

Work will commence with the exec team in late July around creating an engaging Vision which will be used in setting the context for communicating the OEM.

Objectives

An overall organisational objective has been drafted and as above this will be signed off shortly.

Strategy

The 5 key strategies which will ensure delivery of the organisational objective have been developed and have been used to propose 09/10 objectives for each of the exec team. These objectives will be finalised by RJ during w/c 3 August.

Once agreed, these objectives will be used to determine all team member objectives.

Values and Behaviours

A key element of the OEM is the focus on "how" objectives are delivered as well as "what" is delivered.

The exec team will spend some time in early August proposing organisational values and focusing on the key elements which will describe successful leadership in **tie**. Wider contribution to the development of the organisational values will be sought from team members.

People

August will see a comprehensive rollout of the OEM to all team members. This communication will be designed to be "user friendly" and "jargon lite" and will aim to clearly explain:

- Purpose and Vision what they are and why they are important
- Overall Organisation Objective
- Individual Exec Objectives
- How Performance will be managed
- The linkages between "what" and "how"
- · Values and Leadership what we are doing and how they can get involved
- How achievement will be rewarded clearly this follows on from the launch of the new performance management approach and we would hope to have details for communicating in September.

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☐ Yes

Appendix 1 contains a summary of the latest headcount figures.

In terms of staff movement Fiona Dunn has joined the Commercial team reporting to Dennis Murray. Keith McCall, a tram construction advisor has resigned and will be leaving at the end of July. The position of Project Manager responsible for Roads and Drainage in the Infraco department has been occupied by a contractor, in order to fill this role on a permanent basis it has been advertised internally.

Consultation meetings are ongoing with each employee in the MUDFA team affected by the completion of utility works at MUDFA.

Process and Systems

We are currently carrying out an internal audit of HR policies and procedures with a view to identifying a priority order of importance for any refreshment activity. Reward structure and practices have been identified as being the first areas for attention.

Structure and Infrastructure

Work is now underway to ensure that a comprehensive manpower plan is developed which will detail the underlying rational for our current organisational shape and size and will ensure that we manage all future reshaping, including the phased demobilisation, in a timely and consultative manner and in line with the business plan.

Prepared by: Gordon Rae

Recommended by: Richard Jeffrey

Date: 22 July 2009

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☐ Yes ☐ No

Appendix 1

Resourcing Figures

| | Period 1 | Period 2 | Period 3 | Period 4 |
|----------------------|------------|------------|------------|------------|
| | 01/04/09 - | 26/04/09 - | 24/05/09 - | 21/06/09 - |
| Period Dates | 25/04/09 | 23/05/09 | 20/06/09 | 18/07/09 |
| Total Headcount | | | | |
| (employees only) | 87.0 | 84 | 84 | 85 |
| Contractor Headcount | 19.0 | 20 | 23 | 26 |
| Average No Working | 86.0 | 85.5 | 84 | 84.5 |
| New Starters | 3 | 0 | 0 | 1 |
| Voluntary Leavers | 1 | 3 | 0 | 0 |
| Involuntary Leavers | 0 | 0 | 0 | 0 |
| Total Leavers | 1 | 3 | 0 | 0 |
| Turnover | 1% | 4% | 0% | 0% |
| Sickness Days | 18.0 | 25 | 21 | 16 |
| Working Days | 18.0 | 20 | 20 | 20 |
| Absence % | 1% | 1% | 1% | 1% |
| Average Salary | £50,390.32 | £51,097.16 | £50,323.96 | £50,578.97 |
| Cost of Absence | £3,488.56 | £4,913.19 | £4,064.63 | £3,112.55 |

FOISA exempt

☐ Yes ☐ No

2.5 The Future of tie

Update to be given at meeting.

FOISA exempt

☐ Yes ☐ No

3 Strategic Option Review

Paper to be discussed at meeting.

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FOISA exempt

☐ Yes

tie Limited

Paper to : tie Board

Subject : Financial, Commercial and Legal Committee

Date : July 2009

The FCL Committee was formally established as a sub-committee of the Tram Project Board with a remit to oversee financial, commercial and legal process and issues management, but without delegated decision-making authority. The formal remit is attached for reference. In the course of 2009, an increasing requirement for active commercial and contractual management has developed in response to failure by the main construction contractor to adhere to contract terms and normal rules of professional construction management procedure.

It is therefore proposed that the FCL Committee should take a leading role on behalf of the TPB in overseeing the resolution of the disputed areas. This will involve weekly meetings while there is an active resolution process underway with the objective of achieving project programme and cost certainty within a reasonable risk tolerance.

The FCL Committee will focus on:

- · Assessment of the legal strategy deployed to resolve the disputed issues
- Approval of the legal and commercial mechanisms designed to resolve specific material issues including the timing and means of their deployment
- · Assessing the financial and risk implications of the specific material issues
- Monitoring progress and assessment of proposed resolution terms

The range of material issues under dispute will be captured in a discrete manner within a document under preparation (the "Resolution Strategy") and which will be presented for TPB approval on 29.7.09. In order to facilitate an efficient resolution process it is proposed that the TPB delegate the following authority to the FCL Committee:

- Approval to implement legal and commercial strategies and mechanisms aimed at the resolution of specific material issues, as set out in the Resolution Strategy
- 2. Approval to conclude matters where the project cost impact is less than £1m relative to the approved AFC of £512m and / or where the programme impact relative to the approved revenue commencement date of July 2011 is less than 3 months. These impacts to include any consequential impacts on other aspects of the budget or programme.

A minute of the key decisions approved at each FCL Committee meeting will be prepared and presented or summarised for the 4-weekly TPB meeting. This will include a rolling forward assessment of possible decisions required prior to the next TPB meeting, so that further specific delegated authority can be considered. The levels of delegated authority should be formally re-assessed at each TPB meeting in order to keep pace with the resolution process.

The FCL Committee will be attended by senior tie / TEL management and by senior Council Officers, in order to ensure the appropriate level of authority from each organisation. This will normally include the TMO, Council Solicitor, Project SRO (tie CEO) and the Tram Project Director.

Financial, Commercial and Legal Committee Remit

 To monitor its own remit and ensure that the scope remains fit for purpose or to recommend changes to the TPB as necessary.

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☐ Yes

- To review, approve and monitor the remit, composition and operations of any sub-groups established by the FCL sub-committee for specific or general purposes relevant to this remit and to ensure fitness for purpose.
- To develop and implement a forward view of known and anticipated events relevant to this remit and to ensure that such matters are dealt with in sub-committee meetings in a structured and proactive manner.
- To monitor and review in particular :
 - Financial management Reporting, control, audit, risk management, insurance;
 - o Contract management Reporting, compliance, interface with delivery, claims and variations
 - o Impending and actual contractual dispute matters
 - Third party agreements
 - o Governance structures, compliance and operations
 - o Grant Award Letter compliance
- · To report fully and timeously to the TPB.

Delegated Authority

The FCL sub-committee has no specific authority delegated to it by the TPB. The authority delegated to the Tram Project Director and the Project SRO remains in place.

December 2008

FOISA exempt

☐ Yes ☐ No

4 Health and Safety Update



Deliver the Tram Safely

Company Report - Period 04 09/10

| roject Running Totals | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | МОР | AFR | SFR |
|-----------------------|-------------|-----------|-------|--------|------------------------|-------------------|-----|-----|-----|-------------|-------|
| Period | 133,001 | 0 | 1 | 2 | 8 | 15 | 0 | 1 | 5 | 0.75 | 11.28 |
| Year to Date | 547,380 | 0 | 1 | 12 | 62 | 49 | 0 | 4 | 19 | 0.18 | 8.95 |
| 13 period rolling | 1,536,764 | 1 | 4 | 36 | 206 | 194 | 3 | 17 | 90 | 0.33 (0.26) | 12.62 |
| MUDFA | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | МОР | AFR | SFR |
| Period | 51,050 | 0 | 1 | 2 | 5 | 11 | 0 | 1 | 5 | 1.96 | 21.55 |
| Year to Date | 235,315 | 0 | 1 | 5 | 50 | 39 | 0 | 4 | 17 | 0.42 | 16.5 |
| 13 period rolling | 756,552 | 1 | 3 | 21 | 158 | 176 | 2 | 16 | 81 | 0.53 (0.40) | 23.26 |
| INFRACO | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | МОР | AFR | SFR |
| Period | 66,451 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0.00 | 15.0 |
| Year to Date | 250,065 | 0 | 0 | 6 | 12 | 10 | 0 | 0 | 2 | 0.00 | 7.60 |
| 13 period rolling | 571,520 | 0 | 1 | 12 | 42 | 16 | 1 | 0 | 6 | 0.17 | 7.70 |
| Other | 208,692 | 0 | 0 | 3 | 0 | 2 | 0 | 1 | 3 | 0.00 | 0.96 |



2 EXECUTIVE SUMMARY

- An accident occurred outside a Carillion site during period 4. An 82 year old woman fell after catching her heel on a
 temporary ramp on a pavement. This has been classed as a reportable accident by Carillion but was not directly as a result
 of the construction activities.
- Service strikes have decreased slightly over-all during period 4 however, they have increased for BSC. **tie** are reviewing the last 4 service damages for trends and will report any findings. **tie** will be introducing a specific report format for service damages to be completed by the contractor, this will help identify common themes and trends more easily.
- Project Manager Inspections for MUDFA have been 100% of those planned, however, the joint inspection process for Infraco between tie and BSC has proved more difficult to achieve the 100%, with 7 out of 8 inspections completed. Scores are yet to be confirmed. 5 out of 6 Safety Tours were achieved, this was due to holiday absence.
- A major operation to connect the new gas main at The Mound and abandon the old one went well. Gas that remained within the 120yr old main after diversion was burned off in a controlled manner.
- tie have reviewed the past 12 months MOP incidents and have identified particular risk areas that will be given specific
 focus with our contractors prior to the Edinburgh Festival.



Deliver the Tram Safely

Company Report - Period 04 09/10

| Project Running Totals | HS&E Tours | HS&E PM Inspection |
|---------------------------|------------|-----------------------|
| Number planned | 6 | 13 |
| Number achieved | TBC | 12 |
| Average Score | | TBC |

HS&E KEY ACHIEVEMENTS

- CoCP briefings have been carried out to the majority of people in tie.
- Service strike frequency has decreased; incidents this period have been attributed to lack of protection to exposed services.
- CDM contractor competency control is working well and the Approved list of contractors is in place.
- tie Client brief has been amended and improved. BSC are carrying out a training session on the delivery of this brief.

HS&E KEY ISSUES/ AREAS OF CONCERN/ GENERAL NOTES

- There have been a number of claims reported to tie during period 4 involving members of the public slipping/ tripping on temporary walkways and ramps. 1 incident involved an 82 year old woman who fell when she caught her heel on a temporary ramp, the woman chipped a bone in her elbow and suffered bruising. This is classed as a Reportable accident under RIDDOR.
- There have been 2 near miss/unsafe conditions noted on inadequate shoring of trenches on Carillion sites during period 4. Carillion have been requested to re-check temporary works designs and brief their operatives.
- Site tidiness was reported to have improved last period especially on Carillion sites, however recent site
 inspections have reported increased amounts of public refuse being left for CEC collection but not being picked
 up in a timely manner due to "work to rule" arrangements. BSC have dedicated certain operatives to tidy up site
 areas, this appears to be working well.
- CoCP and CDM briefings were undertaken to the BSC directors and safety team. It was reinforced that 30 and 7
 day notices were required for new works and that no construction traffic is allowed to park outwith the
 construction site. tie have developed an electronic CoCP inspection and the information will be used to monitor
 specific trends and to publish info on the website.
- Cemetery wall in Constitution Street has had a structural survey and it has been classed as "unsafe" and in "progressive failure". A risk assessment must be carried out to establish the present risk to the public and nearby workers. This has been discussed with CEC.
- Complaint received from a member of public regarding abusive language and drinking on site. Carillion have investigated and discharged 4 workers from site, barring them from returning to the project. They have also met with the contractor's Director and formally recorded a warning against the two companies involved. Carillion have carried out briefings to their supervisors and workforce regarding this incident and informed them of required behavior and conduct.

SIGNIFICANT RISKS FOR THE NEXT PERIOD

RIS

ACTION

- BSC and Carillion will be working in certain areas during the festival embargo. There will be an increase in the number of public visitors in the City of Edinburgh.
- Farrans have started Utility Diversions in Section 7, site set up has taken place and main works will commence in period 5.
- Front Line Construction will start Road 8 towards the end of period 5. Adjacent to Forth Ports area / in front of Ocean Terminal.
- Holiday season approaching traditionally there is an increase in incidents around the holiday season. Contractor supervision should be monitored.
- Scottish Rugby Union will be carrying out works to the turnstiles and accommodation block.

- tie to review pedestrian and traffic management,
 tie to ask Carillion and BSC to assess the risk of the increase in the public and visitors.
- tie will monitor works, Farrans have been provided with tie brief and the BAA induction. Ecology tool box talks to be given.
- tie will hold a prestart meeting with Front Line and review CPHSP prior to start. Need to check roads specification and how Front Line will work to this.
- tie will raise risk with the contractor and ask to make suitable arrangements for supervision
- tie to elect SRU as the CDM Client. tie to pass on design and information about hazards to SRU.



Company Report - Period 04 09/10

ENVIRONMENTAL SUMMARY

List any significant environmental events, initiatives, breaches etc

- Noise complaints received for Carillion works in Constitution Street during the night. Investigation carried out.
- IEMA, (Institute of Environmental Management and Assessment) have asked if they can visit the project in Period 5 with a group of environmentalists, tie Communications Team have been informed.
- tie are in the process of compiling a report on the post excavation archaeological works, this will include reinterment and post excavation of the remains found in Constitution Street. Projected costs are significantly higher than the allowed budget. This has been raised with CEC.
- Invasive species outwith the LOD at Gogarburn bridge do not require to be treated by tie. It is the responsibility
 of BSC to prevent the spread of the hogweed.
- BSC will be providing the updated Environmental Management Plan to tie on 17th July, this will be reviewed as per the employers requirements.
- SEPA have confirmed that BSC need to have a simple CAR licence in place for Tower Bridge in Ocean Drive, SEPA have advised that works can continue prior to the formal issue of the CAR license.
- Gogarburn CAR licence still outstanding due to SEPA hydrology study, this may be received mid July depending
 upon SEPA risk assessment. Otter licence imminent for Burnside Road

BEST PRACTICE SUMMARY

List key significant best practice initiatives

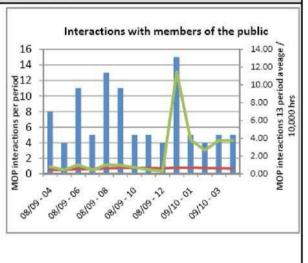
- A presentation was given to the tie HSQE team on track construction from Willie Biggins of tie, it is recommended that this presentation is given to others as it increases knowledge of track construction and quality issues that may occur as a result of poor construction.
- BSC have used the Tram Bus to receive talks from Scottish Power on service avoidance. 51 operatives from Crummock and MacKenzie Construction attended the briefings.

MEMBER OF PUBLIC INTERACTION SUMMARY

List any significant interactions with members of the public, including RTA's, alleged incidents

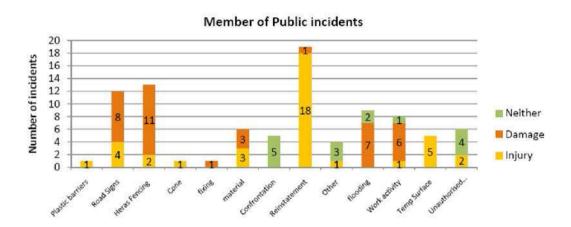
There have been a number of claims reported to **tie** during Period 4 involving members of the public slipping, tripping on temporary walkways and temporary ramps.

- 1 incident witnessed by the contractor involved an 82 year old woman who fell when she caught her heel on a temporary ramp; the woman chipped a bone in her elbow and suffered bruising. This is classed as a Reportable accident under RIDDOR although it was not directly associated with construction works.
- There has also been a claim received form an elderly lady who states she fell and fractured her femur due to rubble outside a Carillion site in St Andrews Square. This is being investigated but early information from CUS indicates that the area was clear from rubble.
- Carillion are reviewing a number of temporary ramps that are in place across the city, it may be decided that the ramps increase the risk in some areas and may be removed.

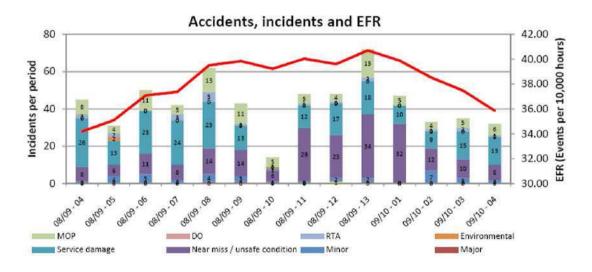


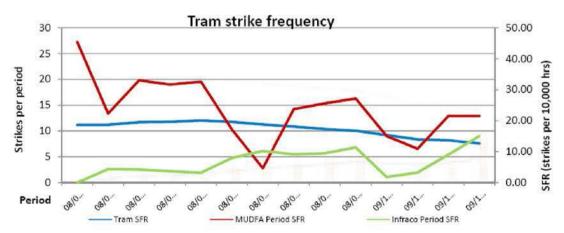


Company Report - Period 04 09/10



The above information will be used to target specific areas and will be shared with our contractors. Specific attention will be given to the quality of reinstatement and the hand over procedure is being revised at present. A summary will be produced looking at the reasons behind the 18 injuries from reinstatement works.







Company Report - Period 04 09/10

APPENDIX A

SIGNIFICANT ACCIDENT / INCIDENT

| AllR Ref: | AIIR 00821 Insurance | Serious/Significant Yes | Action taken by tie (if required): | | | | |
|-------------|----------------------|---|---|--|--|--|--|
| Contr Ref: | TBC | Description: | requiredy. | | | | |
| Project | MUDFA | MoP claims to have tripped over some rubble on the | tie have passed details to the contractor and an | | | | |
| Location: | St Andrews Square | ground and fractured her leg. The incident occurred outside a site in St Andrews Square near Harvey | investigation is underway. Details forwarded to | | | | |
| Date & Time | TBC | Nichols | insurers | | | | |
| A/I type: | MOP – Claim | Action taken by Contractor: | | | | | |
| tie PM: | Kevin Gray | This incident was not reported to the contractor at the time but is now under investigation | 1 | | | | |
| Contractor: | Carillion (AMIS) | unie but is now under investigation | | | | | |
| Sub Contr: | N/A | 1 | | | | | |

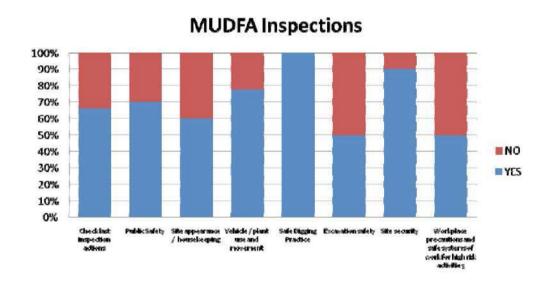
| AllR Ref: | AIIR00822 | Serious/Significant | Yes | Action taken by tie (if required): | | | | | |
|-------------|------------------|--|--|------------------------------------|--|--|--|--|--|
| Contr Ref: | TBC | Description: | - 13. | requiredj. | | | | | |
| Project | MUDFA | | 82 year old lady fell at pedestrian ramp and split her | | | | | | |
| Location: | 39 York Place | head open. She appe Ambulance was called. | incident with Carillion, tie have made contact with the Injured party's relative | | | | | | |
| Date & Time | 02/07/09 @ 14:15 | bone in her elbow and is | bone in her elbow and is still in hospital (9/7/09) | | | | | | |
| A/I type: | Major reportable | Action taken by Contra | ctor: | and condition . | | | | | |
| tie PM: | Michael Blake | | Carillion have removed the ramps to this area and are | | | | | | |
| Contractor: | Carillion (AMIS) | investigating further | | | | | | | |
| Sub Contr: | | | 1 I | | | | | | |

| AllR Ref: | AIIR 00826 | Serious/Significant | Yes | Action taken by tie (if required): | | | | | | |
|-------------|--------------------------------|---|--|---|--|--|--|--|--|--|
| Contr Ref: | TBC | Description: | Description: | | | | | | | |
| Project | Infraco | | Siemens HSQE Manager whilst on site noticed the local youths had tried to get a loose Heras fence panel left after BSCs site investigation works on the Guided | | | | | | | |
| Location: | Guided Busway | | | | | | | | | |
| Date & Time | 07/07/09 16.35 | on to the Edinburgh G Checked at 16.00 on the 07 | s Palisade Boundary Fence lasgow Railway. Section 7/07 by W. Biggins with none ecured escalated within BSC | removed or secured escalated within BSC for removal on the 07/07. | | | | | | |
| A/I type: | Near Miss/Unsafe Conditions | Action taken by Contract | Action taken by Contractor: | | | | | | | |
| tie PM: | W. Biggins | | The panel was removed by Kenny with 9 nr loose panels identified within 20m of NWRs fence line passed over to BSCs section manager at 12.00 on the 07/07 to arrange removal, on the 07/07, Removal & Securing of | | | | | | | |
| Contractor: | BSC Infraco | over to BSCs section mana | | | | | | | | |
| Sub Contr: | 1 | all lose Heras Panels comp | | | | | | | | |
| | | An incident investigation ins 3 Rev C Form raised to pro issues learnt. | stigated by BSC with a F313- gress actions taken and | | | | | | | |

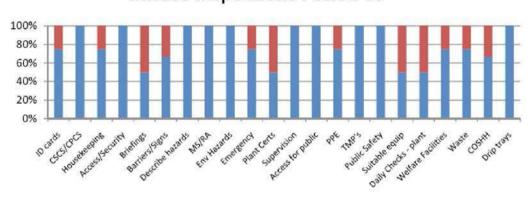


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APPENDIX B - INSPECTIONS



Infraco inspections Period 03



Due to a change in the inspections used for Infraco i.e. joint BSC/tie inspections, data will be available in the P5 report for P4 inspections.



Company Report - Period 04 09/10

APPENDIX C - NOTABLE SERVICE STRIKES

| AIIR Ref: | AIIR00838 | Serious/Significant NO | Action taken by tie | | | |
|-------------|------------------|--|---------------------|--|--|--|
| Contr Ref: | | Description: | (if required): | | | |
| Project | Infraco | During lifting of reinforcement exposed bus tracker cable | To review BSC repor | | | |
| Location: | Princes Street | was caught and found to be live. Bus Tracker cable was above pavement level and had previously been marked as tested and isolated. | when delivered | | | |
| Date & Time | 12/07/09 1430hrs | Superfections to Artificial Association for the con- | | | | |
| A/I type: | Service Damage | Action taken by Contractor: | | | | |
| tie PM: | P Dobbin | BSC are carrying out an investigation with Scottish Power to | | | | |
| Contractor: | BSC | confirm why cable was left live. | | | | |
| Sub Contr: | MacKenzie | | | | | |
| AIIR Ref: | AllR00839 | Serious/Significant NO | Action taken by tie | | | |
| Contr Ref: | | Description: | (if required): | | | |

| AIIR Ref: | AllR00839 | Serious/Significant NO | Action taken by tie | | | |
|-------------|------------------|--|--|--|--|--|
| Contr Ref: | | Description: | (if required): | | | |
| Project | Infraco | While excavating at Ch121600 adjacent to BHS Properties | Confirmation from | | | |
| Location: | Princes Strret | 13T tracked excavator struck LV cable probably street lighting. Area had been scanned with CAT and Genny. | BSC required for cable use and use of CAT & Genny. | | | |
| Date & Time | 14/07/09 1700hrs | | | | | |
| A/I type: | Service Damage | Action taken by Contractor: | 1 | | | |
| tie PM: | P Dobbin | SP attended site and pot ended cable. | 1 | | | |
| Contractor: | BSC | 160 | | | | |
| Sub Contr: | Crummock | | | | | |



Company Report - Period 04 09/10

Appendix D Benchmarking

Benchmarking

| Organization | AFR target (till March 09) | AFR Actual (13 month rolling) |
|--|----------------------------|-------------------------------|
| Edinburgh Tram Project | 0.24 | 0.33 |
| Carillion PLC | 0.10 | 0.22 |
| Bilfinger Berger | 0.25 | 0.36 |
| CECA (Civil Engineers Contractors Association) | 0.28 | |
| HSE (Health and Safety Executive) | TBC | |
| SWS (Scottish Water Solutions) | 0.11 | 0.14 - |

The above table shows organisations target AFR until the year end and where available, their actual performance against target. For Carillion and Bilfinger Berger, the targets shown are for the UK organisation not the project.



Deliver a Safe Tram

Company Report - Period 04

| | | Data Checked | | | | | | | | | |
|---------------------|----------------------------|-----------------------------------|---------|------------------------------------|----------------------------|-----------|----------------|--|--|--|--|
| Section | Activity | Interdisciplinary Design Check | Hazards | Inspection and Test Plan System | Design Variation/Change | As Builts | Asset Register | | | | |
| Edinburgh Park (5B) | Structural Concrete/Reinf | N | Υ | Υ | Р | Υ | N/A | | | | |
| A8 (5C) | Piling (permanent works) | Р | γ | Υ | Р | Υ | N/A | | | | |
| 7A Gogar | Structural Concrete | ₩. | Υ | Y | Р | Y | N/A | | | | |
| 7A Gogar | Reinforced Earth Works | N. | Υ | Υ | Р | Р | N/A | | | | |
| Period 4 | Total (y) | 0.5 | 4 | 4 | 2 | 3.5 | 0 | | | | |
| | Max Possible Total (y) | 4 | 4 | 4 | 4 | 4 | 0 | | | | |
| Period 3 & 4 | Average Compliance to date | 5% | 92% | 75% | 50% | 69% | N/A | | | | |

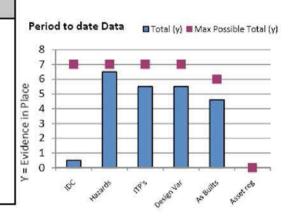
Key - Y = Evidence exists (1) N = No evidence exists (0) NA = Not applicable(-) P = Part evidence in place (0.5)

1.0 Deliver a Safe Tram Key Metrics

- Period 4 "Deliver a Safe Tram" inspection metrics were carried out on 4 activities from section 5 through to 7, these
 activities mainly involved structural concrete and have identified similar issues to those highlighted during period 3.
- Action taken from last report/ period 3 the report has been formally sent to BSC with a covering letter requesting
 confirmation that risks are being mitigated despite not having full IDC in place, this point was further raised in the
 BSC/tie Period Progress meeting. A tracker has been set up to monitor the close out of areas identified as
 deficient. Thus far, no finding has been closed. Reply due from BSC 24th July.
- Of the 4 activities checked, none have shown evidence of having gone through BSC's Inter-Disciplinary Check process, however, there was evidence that the Piling Works at the A8 had had input from Siemens through a recorded Confirmation of Verbal Instruction (CVI) regarding earthing and bonding requirements. It should also be noted that for the structures, i.e. Gogarburn Bridge, SDS had provided a design certificate proving that the design calculations have been checked and verified.
- The inspections showed that Hazards identified in the hazard log had been mitigated before construction had commenced, for example, Risk of Bridge collapse – ensure detailed design complete for structure, evidence witnessed was the design certificate from SDS.
- Inspection and test plans, the contractors process for quality control during construction appeared to be to a good and acceptable standard. Contrary to last period, the correct revision of ITP for reinforced concrete pour was being used. Full evidence was in place in all locations
- Changes to design on site were backed up by technical queries from BSC site to SDS, however there was no
 evidence to show if the change had been assessed for the need to go through the IDC process.

1.1 Deliver a Safe Tram - Required Action

- Follow up letter to BSC, ensuring satisfactory reply.
- · Pursue active close out of deficient areas identified thus far.
- Request further information from BSC regarding their change process for ensuring variances to design are assessed for impact to Commissioning, Operation and Maintenance.
- Although Asset Management has not been applicable to specific structures not yet complete it is considered appropriate that BSC/Siemens/Transdev should have an outlined agreement and Asset Management Strategy in place – this is to be followed up on during period 5
- The "Deliver a Safe Tram" metrics are to be used in areas not yet under construction to test if ready to construct



FOISA exempt ☐ Yes ☐ No

Primary risk register

| | Risk D | escription | | | | | | | | | |
|-------------|---|--|-------------------------------------|------------|--------------|------------|---|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| | Base Date Design Information to Issued For Constructions (BDDI-IFC). Lack of visibility of design changes between November 2007 and | Tramworks price based on a design which may have been altered. Unclear who authorised design change. | Additional cost and programme delay | R Bell | High - 25.00 | | Establish a process which will act as a control mechanism for design changes. (If one exists already then ensure process is complied with) | On Programme | Complete | 30-Jun-09 | T Glazebrook |
| | May 2008 | | | | | | Intensive Mediation Marathon 29/6/09 to 6/7/09 to try and resolve issues. | N/A | Complete | 30-Jun-09 | S Bell |
| | | | | | | | Mediation resulted in no overall agreement on BDDI - IFC although it gave useful background information. Strategy paper to be presented to TPB on 29 July to seek approval for way forward including utilising necessary contract mechanisms (DRP, audit etc) | N/A | On Programme | 14-Aug-09 | S Bell |

Edinburgh Trams

Lothian Buses

| | Risk | Description | | | | | | | | | |
|--------------|--|---|---|------------|--------------|------------|--|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 1090 | Initial costs for Burnside Road works higher than anticipated | Cost of works at Burnside Road exceed that allowed in project | Additional Cost | F McFadden | High - 25.00 | | Costs being reviewed and tender documents sent out April 09. | N/A | Complete | 30-Jun-09 | F McFadden |
| anticipated | | budget. | | | | | Tender docs issued based on scheme design information. Pre-tender estimate produced and final design ongoing. Delivery of tenders final outcome can be predicted. | N/A | Complete | 30-Jul-09 | F McFadden |
| 1091 | | Excavation of soft, unsuitable material below Earthworks outline | | F McFadden | High - 25.00 | | Extent of soft ground being investigated. External specialist advice deployed. | N/A | On Programme | 31-Dec-09 | M Paterson |
| 1092 | | Costs associated with additional works requested by CEC planners | Additional cost | F McFadden | High - 25.00 | | Infraco commercial team reviewing | N/A | On Programme | 30-Jun-09 | M Paterson |
| 1 101 | Unreasonable behaviour of BSC commercial management | Unrealistic estimates being submitted for potential changes | Programme delay while disputes regarding estimates are resolved | F McFadden | High - 25.00 | | All estimates to be scrutinised by tie commercial team and, where appropriate, challenge made to BSC. Additional resource (T&T) being used to check estimates to reduce delay. | On Programme | On Programme | 30-Dec-10 | M Paterson |

Edinburgh Trams

Lothian Buses

| | Risk D | escription | | | | | | | | | |
|-------------|--|---|---|--------------|--------------|--|---|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 1094 | | Roads throughout works require full depth reconstruction | | F McFadden | High + 24 00 | | Carry out surveys to confirm extent of roads requiring full depth reconstruction | N/A | Complete | 30-Jun-09 | C Neil |
| | | | to only 4 areas. Total exposure estimated at £3m | | | | Suite of options from surveys to be reviewed and agreement reached | N/A | On Programme | 31-Oct-09 | M Paterson |
| 44 | | Delay to programme with | D Sharp | High + 23.00 | | Evaluation of prior approval programme | Complete | Complete | 31-Oct-08 | D Sharp | |
| | required prior and technical approval | echnical approval onsents in line with | additional resource costs and delay to infraco. Impact upon risk balance. | | | | Hold fortnightly Roads Design Group | Complete | Complete | 31-Dec-07 | T Glazebrook |
| | consents in line with SDS V31 | | | | | | Informal consultation prior to statutory consultation | Complete | Complete | 31-Mar-09 | T Glazebrook |
| | | | | | | | Integrate CEC into tie organisation/accomodati on (office move) | Complete | Complete | 4-Jun-07 | T Glazebrook |
| | | | | | | | Weekly Meetings of Approvals Task Force | On Programme | On Programme | 30-Oct-09 | D Sharp |
| 6 | Uncertainty over extent of contaminated land | Tramway runs through area of previously | Increase in costs to remove material to special and | R Bell | High - 23 00 | | Issue containation and gi report to Infraco bidders | Complete | Complete | 2-Mar-07 | B Dawson |
| | on route unidentified contamination | unidentified contamination/unf orseen ground | other tip. | | | | tie to obtain ground investigation and contamination reports from SDS | Complete | Complete | 30-Mar-07 | A McGregor |

Edinburgh Trams

Lothian Buses

| | Risk [| Description | | | | | | | | | |
|---|--|---|---|------------|---------------|------------|--|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 279 | | Third party consents including Network Rail | Delay to programme; Risk transfer response | D Sharp | High - 23 00 | | Additional EMC modelling to give better info to NR | Complete | Complete | 31-Dec-07 | C Kerr |
| | | consent are | by bidders is to | | | | CEC Planning - mock application by SDS | Complete | Complete | 31-Dec-07 | T Glazebrook |
| | | | cost if transferred and also as a result of any delay | | | | Draft depot and station change proposals to NR | Complete | Complete | 31-Jan-08 | A Sim |
| | | | due to inflation. | | | | Identify fallback options | Complete | Complete | 31-Aug-07 | T Glazebrook |
| | | | | | | | Monitoring and tracking through the 3rd party rep | On Programme | Complete | 30-Jun-09 | D Sharp |
| | | | | | | | Monitoring of BBS - 12 week look ahead | On Programme | On Programme | 14-Jul-11 | R Bell |
| | | | | | | | Obtain critical consents prior to financial close | Complete | Complete | 31-Jul-08 | T Glazebrook |
| | | | | | | | Weekly meetings of Approvals Task Force | On Programme | On Programme | 30-Oct-09 | D Sharp |
| 43 | General delay to programme with | Delay to completion of | Increased out-turn | S Bell | High + 23.00. | | Liason between tie/BSC programme managers | N/A | On Programme | 30-Dec-11 | T Hickman |
| various causes e failure to obtain approvals on time parliamentary processes, | failure to obtain approvals on time; | project | plus revenue loss | | | | Programme management paid. | N/A | On Programme | 30-Dec-11 | F McFadden |
| | A LINE OF STREET, STRE | | | | | | Weekly tie/BSC commercial meetings | N/A | On Programme | 30-Dec-11 | M Paterson |

Edinburgh Trams

Lothian Buses

| | Risk D | escription | | | | | | | | | |
|-------------|---|--|--|------------|--------------|------------|--|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 928 | Major single safety incident (including a dangerous occurrence) during construction | Safety incident during | Delay (potentially critical) due to HSE investigation and | F McFadden | High - 21 00 | | All Site Staff to get CSCS or equivalent | On Programme | On Programme | 30-Jan-11 | C McLauchlan |
| | | | rework. PR risk to tie and stakeholders. | | | | Develop and Implement Incident Management Processes | Complete | Complete | 27-Apr-07 | T Condie |
| | | | | | | | HSQE Audits, site inspections and Management Safety Tours to be carried out | On Programme | On Programme | 31-Dec-10 | B Cummins |
| | | | | | | | Safety Induction to be carried out for all site staff | On Programme | On Programme | 31-Dec-10 | B Cummins |
| | | | | | | | Site Supervisors to be appointed by tie | Complete | Complete | 28-Feb-07 | S Clark |
| 931 | Utilities assets uncovered during construction that were not previously | Unknown or abandoned assets impacts scope of Infraco work | Re-design and delay as investigation takes place and solution | C Neil | High=20.00 | | GPR surveys in areas where there are likey to be services | Complete | Complete | 1-Apr-07 | T Glazebrook |
| | accounted for; unidentified abandoned utilities | | implemented; Increase in Capex cost as a result of | | | | Infraco trial holes where applicable. | On Programme | On Programme | 31-Jan-10 | P Dobbin |
| | assets; known redudant utilities; unknown live utilities; unknown redundant utilities. | | additional works. | | | | MUDFA trial holes to verify GPR surveys | On Programme | On Programme | 30-Jul-09 | A Hill |
| 977 | Legal challenge. Extension of statutory consultation process. Large number of objections. TRO process is subject to a public hearing process. | TRO(s) due to a large number of public objections | Requirement to start construction using TTROs | D Fraser | High -20.00 | | Use of TTROs to undertake construction of permanent works in advance of permanent TROs being approved. | On Programme | On Programme | 30-Jan-11 | A Sim |

Edinburgh Trams

Lothian Buses

| | Risk D | escription | | | | | | | | | |
|-------------|--|--|---------------------------------|------------|--------------|------------|--|----------------------|----------------------|------------------------|---------------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 105 | Encountering archaeological finds/burials/munitio ns during construction | Exhumation of archaeological finds/burials | Delay in construction programme | C Neil | High - 19 00 | | Agree protocol AMIS to re-programme works accounting for hot- spots | Complete Complete | Complete Complete | 20-Apr-07 30-Apr-07 | T Condie S Clark |
| | | | | | | | Assess Infraco programme to determine if float contained within the high risk areas | Complete | Complete | 28-Aug-07 | T Hickman |
| | | | | | | | Carry out advanced archaeological works in advance of Infraco | Complete | Complete | 31-Mar-08 | P Douglas |
| | | | | | | | Check to ensure that AMIS programme has adequate float | Complete | Complete | 14-May-07 | J McAloon |
| | | | | | | | Identify hotspots | Complete | Complete | 28-Feb-07 | S Clark |
| | | | | | | | Meet Archaeologist | Complete | Complete | 28-Feb-07 | S Clark |
| | | | | | | | Review Infraco programme regarding archaeological hotspots and ensure adequate programme float | Complete | Complete | 31-Jul-07 | T Hickman |

Edinburgh Trams

Lothian Buses

| | Risk D | escription | | | | | | | | | |
|-------------|---|--|-------------------------------|------------|--------------|------------|--|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 139 | Utilities diversion outline specification | Uncertainty of Utilities location | Increase in MUDFA costs or | G Barclay | High - 19.00 | | Carry out GPR Adien survey | Complete | Complete | 31-Oct-07 | J Casserly |
| | only from plans | and consequently required diversion work/ unforeseen utility services within LoD | | | | | Identify increase in services diversions. MUDFA to resource/re- programme to meet required timescales. | Complete | Complete | 23-Nov-07 | J McAloon |
| | | | | | | | In conjunction with MUDFA, undertake trial excavations to confirm locations of Utilities and inform designer. All complete but section 1A1, York Place to Picardy Place and Palmerston Place IFC design incompatable with congested utilities. | | On Programme | 30-Jul-09 | AHIII |
| | | | | | | | Solution to be developed to manage the issue of the underground structures at Picard Place and Lothian Rd and the cellar in York Place | On Programme | On Programme | 31-Jul-09 | G Barclay |

Edinburgh Trams

Lothian Buses

| | Risk D | escription | | | | | | | | | |
|-------------|---|---|---------------|------------|--------------|------------|--|--------------------|-------------------|-----------|-----------------|
| ARM Risk ID | Cause | Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 271 | Inadequate quality of submission of approval. Partial submission of package. Programme compression. Lack of CEC resources. | Failure to process prior approvals applications within 8 weeks | disruption to | D Sharp | High+18.00 | | Agree approvals submission arrangements with CEC to align with SDS design programme and procurement programme. | Complete | Complete | 31-Mar-08 | T Glazebrook |
| | CEC does not follow agreed procedures. | | | | | | Assure the quality and timing of submissions | On Programme | On Programme | 31-Oct-09 | D Sharp |
| | | | | | | | Final agreement to be approved by Roads Authority, CEC Promoter, CEC in-house legal and tie | Complete | Complete | 28-Feb-07 | T Craggs |
| | | | | | | | Finalise alignments and gain agreement from CEC | Complete | Complete | 29-Dec-06 | T Craggs |
| | | | | | | | Weekly meetings of Approvals Task Force | On Programme | On Programme | 31-Oct-09 | D Sharp |
| | | | | | | | Where appropriate increase case officer resource to cope with programme compression | Complete | Complete | 31-Oct-08 | D Fraser |

Period 4 Transport Scotland report Sections 2-7

On following pages are Sections 2-7 of the Transport Scotland report (Section 1 is the Project Directors report).

Progress Report Issue 1 Period 04

2 Progress

2.1. Overall

From 29 June and 6 July intensive mediation was held between **tie** and the BSC Consortium to try and resolve key differences which have been stalled within the Project Management Panel.

Potential solutions were thoroughly explored (and remain under discussion), however it is very disappointing to note that no acceptable overall agreement was reached on the substantive issues.

Transport Scotland and CEC were briefed in detail on the outcome of the mediation and the subsequent 8 July Tram Project Board review and agreed actions.

A further update will be provided to Transport Scotland in early August following the 29 July Tram Project Board and informed by the preparations for the City of Edinburgh Council meeting on 20 August.

The cost, programme and risk information in this period 4 report continues to be based <u>unapproved</u> forecast on the information reported in May 2009. This will be updated once the above actions are progressed.

Overall progress remains behind the master programme, primarily due to:

- · Finalisation of the agreement of change delaying the commencement of work;
- Incomplete utility diversions in the On-Street sections caused in part by traffic management constraints;
- Slow mobilisation of INFRACO, including lack of formal sub-contracts being in place;
- Failure of INFRACO to submit preparatory paperwork in a timely manner i.e. Work Package Plans, Method Statements etc;
- · Requirement for re-design of temporary works;
- Design slippage since novation of design to INFRACO (now recorded in v46 of the design programme);
- Design changes as a result of the Prior and Technical Approvals process; and
- Consortium integrated design programme and validation

Agreement of a revised programme is one of the key priorities for the PMP and this was one of the key discussion topics at mediation. Discussions on programme revision and potential extension of time awards to BSC are continuing during Period 5. It is one of the remaining significant differences between the parties.

The tie live programme currently predicts an Open for Revenue Service date of **September 2012**. This has slipped slightly since last period and is mainly due to the lack of progress being achieved by INFRACO across the route compounded by delays caused by Utility Diversions at Haymarket and Newhaven.

As per the previous period reporting **tie** retain an <u>unapproved</u> recalibrated baseline programme which reflects an Open for Revenue Service date of 23 Feb 2012. This is still a **tie** only view as, to date a recalibrated programme although now submitted by INFRACO has not been agreed with BSC. **tie** has commented on submissions received from INFRACO and detailed discussions have continued with both teams to resolve the causes and effects of delay.

The table below remains as was previously reported and as well as the recalibrated baseline programme it also reflects a completely unmitigated programme as a control scenario only. This is an unapproved delay to the Open for Revenue Service date. On a section by section

basis there are "swings and roundabouts" identified in terms of improvement / degradation of delivery dates. Integration of these sections by BSC is now underway and the re-baselined programme assumes the all logic changes will be accepted by BSC.

| Area | Description | Unmitigated Finish | Re-baseline Finish |
|------------|---|-----------------------|-----------------------|
| Section 1A | Newhaven Road to Foot of the Walk | 03-MAY-12 | 08-SEP-11 |
| Section 1B | Foot of the Walk to McDonald Road | 10-JAN-12 | 09-SEP-11 |
| Section 1C | McDonald Road to Princes Street west | 28-MAR-12 | 06-SEP-11 |
| Section 1D | Princes Street west to Haymarket | 19-OCT-11 | 17-MAR-11 |
| Section 2A | Haymarket to Roseburn junction | 14-FEB-11 | 28-JUL-10 |
| Section 5A | Roseburn Junction to Balgreen Road | 20-MAR-12 | 17-JUN-11 |
| Section 5B | Balgreen Road to Edinburgh Park central | 23-JUN-11 | 04-FEB-11 |
| Section 5C | Edinburgh Park Central to Gogarburn | 24-OCT-11 | 20-JAN-11 |
| Section 6A | Gogar depot | 28-MAR-11 | 15-OCT-10 |
| Section 7A | Gogarburn to Ingliston Park and Ride | 07-JUL-11 | 11-MAR-11 |
| Section 7B | Ingliston Park and Ride to Airport | 26-JUL-11 | 11-MAR-11 |
| Section A | Depot (ready to receive trams) | 21-JAN-11 | 15-OCT-10 |
| Section B | Test track | 07-JUL-11 | 27-DEC-10 |
| Section C | All construction complete | 20-APR-12 | 27-AUG-11 |
| Section D | Open for Revenue Service | 17-OCT-12 | 23-FEB-12 |

Importantly, the re-baseline programme does not take account of any opportunities regarding:

- 1. Improved productivity rates Princes Street will be an important test in this regard;
- 2. Embargo relaxations;
- 3. Alternative construction methodologies to recover time;
- 4. Adjustments to the testing and commissioning phase (the original programme window has been held); or
- 5. Partial opening options.

2.2. Design

IFC Design

Approvals and Consents V46 are progressing as follows:

- IFCs Phase 1a 78 issued out of 117 (a number of new IFCs included in V45 & V46 programmes);
- Prior Approvals are progressing well with 94% granted, three left to be submitted (including the RBS Gogarburn tramstop, and Murrayfield Accommodation Works which has been added as a PA application) and four left to be granted;
- Technical approvals also progress well with 86% granted (from an increased no. of TAA), six remaining to be submitted and 12 (4 from v31) left to be granted;
- Structures approvals are progressing well one structure from v31 remains to be approved (Balgreen Road NR access bridge);
- Roads approvals Two areas remain outstanding for Technical Approval in Phase 1a (1A3 & 1C2);
- Scottish Water have sent formal acceptances to BSC for all sections excepting 1A3, 1C2
 & 1C1. BSC have responded to these acceptances; however a permit for construction for section 6 is still to be issued.
- Sections 1B, 1D, 1C3 & 5B close reports have been signed off by CEC, subject to BSC concluding any concessions included in the reports during construction. CEC are reviewing all other sections based on the prioritisation list provided by BSC.

| Phase 1a only | Numbe | er required | Number | | |
|---------------------|-------|-------------|-----------|----------|--|
| ā | v31 | v46 | Submitted | Granted | |
| Prior Approvals | 49 | 54 | 51 (94%) | 50 (93%) | |
| Technical Approvals | 71 | 83* | 77 (93%) | 71 (86%) | |

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Reasons for design slippage are being reviewed and recorded each week at the design taskforce meeting which is focused on resolving outstanding design issues. This slippage has been addressed as part of the re-calibration of the programme. **tie** are identifying and implementing opportuni**ties** to mitigate the impacts of this slippage.

Although there is evidence of better management of SDS by BSC, this has not yet resulted in improved design performance. The approvals task force has been supplemented by a Design Progress and Design Issues meeting to provide additional management focus on design resolution. V47 includes a number of design integration activities and the impact of these will be analysed over the coming period – it should be noted that this is a consortium issue to manage and **tie** will provide support in this respect. **tie** has implemented an extensive programme of site based monitoring to validate & verify the installation of works in line with an integrated design assured construction. See section 6.3 for amplification.

2.3. Utility works (MUDFA)

Progress on MUDFA works during Period 4 is presented below:

| Rev.08 Figures | Per | riod | Delta | Cumulative | | Delta |
|---|-------|--------|-------|------------|--------|--------|
| MUDFA PERIOD 08 PROGRESS | Plan | Actual | | Plan | Actual | |
| Section 1a Newhaven to Foot of the Walk | 10.0% | 1.3% | -8.7% | 52.9% | 43.0% | -9.9% |
| Section 1b Foot of the Walk to McDonald Road | 0.1% | 0.0% | -0.1% | 100.0% | 99.9% | -0.1% |
| Section 1c McDonald Road to Princes Street West | 2.0% | 4.0% | 2.0% | 94.9% | 84.8% | -10.1% |
| Section 1d Princes Street West to Haymarket | 2.3% | 1.9% | -0.4% | 99.6% | 94.7% | -4.9% |
| Combined Sections 1A-1B-1C-1D (On-Street) Newhaven Road to Haymarket | 4.3% | 1.8% | -2.5% | 82.8% | 76.1% | -6.7% |
| Section 2 Haymarket to Roseburn Junction | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 5a Roseburn Junction to Balgreen Road | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 5b Balgreen Road to Edinburgh Park Central | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 5c Edinburgh Park Central to Gogarburn | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 6 Gogar Depot | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 7a Gogarburn to IPR | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| Section 7b IPR – Edinburgh Airport | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Combined Sections 2A-5A-5B-5C-6A-7A (Off-Street) Haymarket to Edinburgh Airport | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 0.0% |
| FULL ROUTE PHASE 1A NEWHAVEN ROAD TO EDINBURGH AIRPORT | 3.5% | 1.5% | -2.0% | 85.8% | 80.1% | -5.7% |

Key points to note are:

- Progress in the period has been slower than planned in those sections that MUDFA are working. These poor productivity and performance levels can be attributed in part to underground obstructions and technical issues;
- Good progress was made with the gas diversion at The Mound. Gas that remained in the 120yr old main after the diversion was burned off in a controlled manner;
- Utilities diversion works for Sections 7 have been awarded to Farrans and Section 1A are now out to tender. These works are not being carried out by Carillion;
- Section 1B: tie ins, cabling and abandonments are scheduled for completion during July and August 2009, and
- All utilities works are complete in Sections 2, 5a, 5b, 5c and 6 are now complete.

^{*3} additional TAA added in V46

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| Section | Commentary |
|--|---|
| Section 1a Newhaven to Foot of the Walk | Section 1A Plates 11-12 (The Bridges) Temp Telecoms work completed. Telecom Re-Cabling at the Bridges: 1) Virgin Media cabling complete. Transfer programmed for 22nd July 2009 2) BT – Cabling complete. Transfer date to be confirmed 3) Cable & Wireless – Cabling and transfer programmed for 29th July 2009 (Agreed with Scottish Government Building Queen Charlotte Street junction –re-opening delayed until end of July due to SW network issues. Gas Service Transfers works continue in Constitution Street between Duke Street and Baltic Street. |
| Section 1b Foot of the Walk to McDonald Road | Side entry manhole work completed at Balfour Street. Gas main abandonment works commenced on Monday 6th July – 8 week programme. BT manhole at 113 Leith Walk completed. Water connection works at McDonald Road and Brunswick Road junctions with Leith Walk completed |
| Section 1c McDonald Road to Princes Street West | Annandale Street – Playhouse work site reduced in size. Traffic Management switched from East side to West side of Picardy Place. Traffic Management / Work site installed at junction of Leith Walk and Annandale Street following completion of McDonald Road water main connections. Uncovered an uncharted sewer – Impact of uncharted sewer on programme, available space and traffic management arrangements for utility diversions being assessed. Likely impact is a need to re-locate and re-design a number of utility diversions. Existing 24" / 30" medium pressure gas main abandonment at The Mound / Princes Street / Hanover Street Junction. Carillion work scope at The Mound / Princes Street / Hanover Street planned for completion on Friday 14th August, followed by 10 weeks programme of telecoms recabling and transfers. |
| Section 1d Princes Street West to Haymarket | Lothian Road junction progressing in line with the latest CUS programme, showing completion 1 st August 2009. This includes current known scope of BT remedial works to ducts. CUS forecast on Thursday 8th July 2009 shows completion 8th November for Haymarket to Manor Place. BT require a demolish and rebuild of an existing manhole in the junction at Palmerstone Place due to its existing condition. This work is included in the above date for CUS completion and will be completed bt BT. Discussion ongoing with SGN over SGN carrying out the required lift and lay at Clifton Terrace to minimise CUS work and allow for access to carry out planned works. Discussion ongoing with SGN over abandonment of 15" main at Shandwick Place to allow for access for BSC. Additional cross connections required to facilitate abandonment. Survey of underground structure at Grosvenor Street has been completed and issued to SDS and INFRACO. Awaiting solution from SDS. Additional phase of TM may be required to gain access to complete crossings through the structure. |
| Section 2 Haymarket to Roseburn Junction | As- Built drawings being progressed by SDS BT, Thus and C&W cabling to be complete. |
| Section 5a Roseburn Junction to Balgreen Road | MUDFA Diversions COMPLETE. Utilities transferred to Infraco remain in ScotRail Depot |

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| Section 5b Balgreen Road to Edinburgh Park Central | Sewer diversion at South Gyle Access bridge transferred to InfracoTelecoms proximity to South Gyle Access bridge West abutment & Bankhead Drive RW |
|---|--|
| Section 5c Edinburgh Park Central to Gogarburn | Utility diversion works complete. Telecoms re-cabling works underway. |
| Section 6 Gogar Depot | COMPLETE |
| Section 7a Gogarburn to IPR | COMPLETE |
| Section 7b IPR to Edinburgh Airport | Keir have completed and tested all utility diversion associated with the BAA Walkway project. Remainder of scope underway with Farrans. |

2.4. Tramworks (INFRACO)

The project continues to experience problems with slow progress for INFRACO works and, in particular, the appointment of direct BSC resource and the final appointment of the main package contractors. The BSC sub-contractors continue to operate with Limited Letters of Intent whilst awaiting conclusion of the full sub-contracts. Finalisation of the agreement of change- Base Date Design Information (BDDI) and IFC is delaying the commencement of work at Haymarket via duct, Russell road bridge, Carricknowe bridge, Depot building and Tower place bridge.

The work has continued on a number of worksites including:

- Princes Street Track form, Track welding and OLE bases are progressing in both the
 east and west parts of the site. Track has been laid virtually throughout the length of
 Princes Street from South Charlotte St to Frederick St although the majority has yet to be
 levelled and welded;
- · Earthworks between Balgreen Road and Carricknowe bridge;
- · Trial holes at guided bus way section;
- A8 underpass combined phase 1 & 2 programme has now been adopted. The Temporary Traffic Diversion completed. BSC are progressing with the site clearance;
- Edinburgh Park Station Bridge: BSC continued to work on diaphragm wall construction and deck slab reinforcement;
- At Gogarburn Bridge poor concrete quality has led to replacement piers being constructed at this location, and
- Depot Earthworks have not recommenced since 23 June. Further excavation will commence on BDDI to IFC Change agreement. The agreed total to date is 107607 cubic metres out of a total expected 141000 cubic metres (76%).

Progress is now being monitored against the Revision 1 programme. The summary milestones against the agreed INFRACO contract and the short term Rev 1 programme milestones are shown in the table below.

| Milestones | Period | 04 | Cumulative (S | Contract | |
|--------------|---------|--------|---------------|----------|----------------|
| | Planned | Actual | Planned | Actual | Planned to P04 |
| Prelims | 2 | 2 | 48 | 48 | 48 |
| Construction | 4 | 2 | 37 | 35 | 544 |

The Revision 1 programme incorporates the agreed 38 business days (seven weeks plus three days) EOT variation to the contract programme as in the table below. As had been the

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case in the contract programme progress, the common denominator in the Revision 1 programme remains that every activity in the programmes has a work content generated against it which translates into a weighting, allowing accurate reporting of progress.

| | Pe | eriod | Delta | Cumulative | | Delta |
|--|------|--------|-------|----------------|--------|------------------|
| INFRACO PERIOD 04 PROGRESS (Contract Rev.01 Programme) | Plan | Actual | | Plan | Actual | 27 |
| Section 1a Newhaven to Foot of the Walk | 3.4% | 0.0% | -3.4% | 22.6% | 0.0% | -22.6% |
| Section 1b Foot of the Walk to McDonald Road | 2.1% | 0.0% | -2.1% | 42.1% | 1.5% | -40.6% |
| Section 1c McDonald Road to Princes Street West | 1.2% | 0.0% | -1.2% | 10.9% | 0.0% | -10.9% |
| Section 1d Princes Street West to Haymarket | 4.9% | 1.9% | -3.0% | 53.9% | 8.8% | -45.1% |
| Combined Sections 1A-1B-1C-1D (On-Street) Newhaven Road to Haymarket | 2.6% | 0.4% | -2.2% | 29.7% | 2.2% | -27.6% |
| Section 2 Haymarket to Roseburn Junction | 2.0% | 0.0% | -2.0% | 72.5% | 12.6% | -59.9% |
| Section 5a Roseburn Junction to Balgreen Road | 4.2% | 0.0% | -4.2% | 66.1% | 3.5% | -62.6% |
| Section 5b Balgreen Road to Edinburgh Park Central Section 5c Edinburgh Park Central to Gogarburn | 5.8% | 0.0% | -5.8% | 83.0% 58.9% | 2.8% | -71.7% -56.1% |
| Section 6 Gogar Depot | 4.2% | 0.2% | -3.9% | 81.5% | 5.4% | -76.1% |
| Section 7a Gogarburn to Edinburgh Airport | 1.3% | 1.7% | 0.4% | 47.0% | 13.3% | -33.8% |
| Combined Sections 2A-5A-5B-5C-6A-7A (Off-Street) Haymarket to Edinburgh Airport | 2.8% | 0.9% | -2.0% | 71.5% | 8.0% | -63.5% |
| FULL ROUTE PHASE 1A NEWHAVEN ROAD TO EDINBURGH AIRPORT | 2.9% | 0.7% | -2.2% | 55.0% | 5.7% | -49.3% |

| Section | Commentary |
|---|--|
| Section 1a Newhaven to Foot of the Walk | Section 1A4 Lindsay Road under review. Design awaited to allow Utility diversions to be carried out for W1 Lindsay Rd RW which releases Infraco works in this section. |
| Section 1b Foot of the Walk to McDonald Road | Roadworks due to commence post Leith embargo delayed to Sep-09 awaiting MUDFA completion. |
| Section 1c McDonald Road to Princes Street West | Roadworks due to commence post Leith embargo delayed to Sep-09 awaiting MUDFA completion. Section of Princes St east of the Mound junction to west side of South St David Street continued during period 4. |
| Section 1d Princes Street West to Haymarket | Princes Street works re-started 23Mar09 and continue between South Charlotte Street and the Mound. Tram Works in Haymarket are dependent on MUDFA completion that has slipped from end of July completion but planning underway to commence in Shandwick Place during September 2009. |

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| Section 2 Haymarket to Roseburn Junction | Haymarket Viaduct temporary works design resolved although contractor has not yet mobilised following Christmas 2008 break. Verity House access rd complete 23rd May. All required consents in place for track installation. Commercial issues holding-up commencement of works. |
|--|--|
| Section 5a Roseburn Junction to Balgreen Road | Temporary & permanent works re-design along with commercial resolution delaying various structures. All required consents in place for track installation. |
| Section 5b Balgreen Road to Edinburgh Park Central | Temporary & permanent works re-design along with commercial resolution delaying various structures. Only progress in period is against S27 Edinburgh Park viaduct. All required consents in place for track installation. |
| Section 5c Edinburgh Park Central to Gogarburn | A8 Underpass recommenced during P13 but has since been on hold due to discovery of obstructions & refusal of piles. Design solution to combine Phases 1 & 2 now in place. Traffic diversion completed to enable to start combined phase 1& 2 |
| Section 6 Gogar Depot | Depot handed over from MUDFA to INFRACO 9Feb09 Earthworks have not progressed much this period due to the BDDI-IFC change agreement. |
| Section 7a Gogarburn to Edinburgh Airport | Remedial works at S29 Gogarburn underbridge. |

2.5. Tram construction (Tramco)

Good progress continues to be made with the progress of deliverables against the schedule. The production line has commenced during Q1 2009 with the delivery of the first tram still on schedule for April 2010.

The CAF contract programme is incorporated in the Master Tram Project Programme and the current position indicates the following confirmed milestone dates:

- 1st Tram delivery 09-Apr-10
- 5th Tram delivery 10-May-10
- 27th Tram delivery 17-Jan-11

The fabrication programme maintains approximately two months ahead of schedule and it is expected that the first tram will be ready for factory acceptance tests by August.

2.6. Testing and commissioning

The process for acceptance of the Edinburgh Tram Project is designed to ensure that it is delivered in an acceptably safe, compliant and efficient manner. The objectives of the process are to ensure that the system performance, integrity, reliability, availability and safety are rigorously tested and that throughout all stages of the delivery process the many sub-systems and the overall system are validated and verified against the requirements and applicable standards. The detailed sequence and scope of testing and commissioning prior to systems Acceptance testing is to be programmed out and proposed by BSC in further detail in the next year.

To achieve these objectives there is a layered approach to the overall testing and commissioning as laid out in the table below.

| What | Who | Status |
|------------------|--|---|
| Design assurance | BSC (SDS) / tie | Underway. |
| Quality | INFRACO | 10 of the 37 BSC Inspections and Test Plans have been revised by BSC incorporating tie comments. tie are awaiting formal issue from BSC. tie have requested an update of the status of the remaining ITP's. |
| Systems Safety | INFRACO / Independent Competent Person(ICP) / TEL / Transdev | Started - Safety verification plan in place and process of verification already underway. The ICP has been appointed and has started his verification process. |
| Performance* | INFRACO / Transdev / TEL | Requirements set out in the employer's requirements and will be tested following completion of each section of the network. |

BSC have produced Inspection and Test Plans (ITP's) for the current set of construction works, however they have not yet produced a consolidated Test and Commissioning Plan. Constituent elements are available from CAF, the tram manufacturer, the Operator and an overall framework from TEL exists to cover the activities.

It is intended over the next three periods to obtain collective engagement on testing and commissioning, and agreement to the formation of a multi-organisation, multi-disciplinary test coordination team.

Testing undertaken and witnessed in the period has included the A8 piles at Gogar and the first tram set of body shells, (weld quality, dimensional tolerances and water tightness).

*Pre-system acceptance testing includes both Factory Acceptance Tests(FATs), site Acceptance Tests (SATs), Sub-system integration tests (SITs) and System commissioning Tests(SCTs). Once a section of the network is physically completed and the SITs are satisfactorily completed then the formal acceptance process requires BSC to carry out and pass a series of systems Acceptance Tests in order to achieve Sectional Completion. These are shown in the table below.

| Test | Test Name | Test Description | Programme |
|------|-------------------------------|--|--|
| T1 | 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. |
| T2 | 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. |
| Т3 | 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. |
| T4 | Network | The Test is carried out over a 28 | To be completed within |

| | Performance Test | day period in Passenger Service to establish that the ETN can reliably operate. | twelve months of the Service Commencement Date. |
|----|-----------------------------|---|--|
| T5 | Network Reliability Test | Reliability Testing of key sub- systems in Passenger Service. | To be completed within twelve months of the Service Commencement Date. |

This whole process can be described by the following flowchart.

| Stage | Flow Chart | Tests | Description |
|-------|---------------------------------------|--|---|
| 8 | Passenger Service | Network Performance (T4) and Reliability Test (T5) | The date upon which the Edinburgh Tram Network starts in public service |
| | 1 | | 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 |
| | | Performance Test 1 (T2) | ENERGISATION OF COMPLETED PHASE OF THE ETN |
| 6 | Test Running & Driver Familiarisation | | The period post-ETN commissioning used to complete driver and control room staff training and gain confidence to enter Shadow Running Phase |
| | | Post-Commissioning Test (T1) | |
| 5 | Commissioning | System Integration Test | 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 at site will take place and as appropriate a delivery test undertaken. |
| - | | | |
| 2 | Factory Acceptance Tests | FAT | Thorough demonstrable testing of the subsystem at Infraco's premises |
| | | | |
| 1 | Build / Manufacture | | Manufacture and assembly of the System by the Infraco |
| | 1 | | |
| D | Design | | The scope of the works designed through Approval in Principle and Approved for Construction & Manufacturing Drawings; with associated verification and validation test and integration plans complete |

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2.7. Interface with other projects

The following table identifies the other projects ongoing within the city which may impact on the Tram project. This is reviewed on an ongoing basis both internally and in conjunction with TS to identify conflicts and mitigations. The most significant interface of concern is the Gogar interchange. tie has instructed the design change and this is underway. The St James centre re-development remains as amber as commencement of this project is now indicated towards the completion of the Tramworks and therefore interfaces should diminish.

| External Projects | Promoter | Project Description | Potential Conflict | | | | | |
|---------------------------------------|-------------------------------|--|--|-----------------|-----------------------------|---------------|--------|---|
| | | | | Tram C Dates | m Contract es Project Dates | | es | |
| | | | | Start | Finish | Start | Finish | Comments |
| Gogar Surface Station | Transport Scotland | New station to east of Gogar Depot | | Aug- 08 | Jul-11 | Oct-09 | Mar-11 | All works with the exception of track installation between Gyle Centre and Depot stop and F&M Installations will be complete by Sep 2010. tie and TS developing an integrated programme. |
| St.James Centre Re- development | CEC / Henderson Global | Redevelopment of existing shopping centre. | Interface with Picardy Place junction re-construction and Cathedral Lane sub-station | Nov- 10 | Oct- 11 | 2011 | 2016 | Downgraded from red to amber as commencement of this project is now indicated towards the completion of Tramworks and therefore interfaces should diminish. |
| St.Andrew Square Development | CEC | Demolition of existing buildings bordering South Side St. Andrew Square, South St David Street and Meuse Lane | Infraco Programme | Jan- 10 | Mar- 10 | ТВА | TBA | Traffic Management changeover completed 6th/7th June09. Infraco activities will not commence until Jan 2010 |
| Princes Street Hotel | Deramore Property Group | Redevelopment of existing buildings at 121 - 123 Princes Street to 80,000 square feet 3 floor of retail and 100 bedroom hotel | Direct clash with Infraco programmed works in Princes Street during blockade | Mar- 09 | Nov- 09 | Early 2009 | Jun-11 | Currently in planning stage. CEC is managing the developer within the tram constraints. Contractors programme being sought. |
| Princes Street Property | asediqbal consulting | Site clearance and redevelopment at 125a Princes Street on all 3 floors to convert to an EasyHotel | Access through BSC worksite. Internal strip-down ongoing and access required for debris removal. | Feb- 09 | Nov- 09 | TBA | TBA | Requirement to access BSC worksite to allow removal of debris has been addressed and achieved. |
| Airdrie - Bathgate | Transport Scotland | New track installation | Tram possessions mainly "piggy- backed" on A2B possessions which could be altered / cancelled. | ТВА | ТВА | Mar-09 | Mar-10 | Various possessions and RotR workings |

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| Baxter Place Development | Fitzpatrick Hotel Group | Conversion of existing building adjacent Greenside Lane and with frontage onto Leith Street | Proposal to divert existing utilities through basement of building. Also potential TM interface issues with Picardy Place construction. | Now | Jul-11 | ТВА | Dec-10 | |
|------------------------------------|----------------------------|--|--|------------|------------|--------|--------|--|
| National Portrait Gallery | | Major building construction and re- furbishment. The renovation of the external facades including the renovation of the external masonry, the overhauling of the existing windows, the renewal of the existing rooflights and roof covering, the renovation of the existing rainwater pipes and the moving some of the existing window bars to the inside. Additionally, it is proposed that an external ramp is formed to the front main entrance to allow disabled access. | Interface with Infraco works on St Andrew Street / York Place | Jan- 10 | Mar- 10 | Apr-09 | Nov-11 | Decant complete June 09 No issues expected. |
| St.Andrew Square Development | CEC | Demolition of existing buildings bordering South Side St.Andrew Square, South St David Street and Meuse Lane | Utilities programme | Now | Apr- 09 | ТВА | ТВА | Utility Diversions in South and Mid St Andrew Square complete mid May. Main demolition to be advised as contractor not ready to commence. Traffic Management changeover completed 6th/7th June09. Telecoms works will continue on the east side. |
| Waverley Steps | Transport Scotland | Refurbishment of existing Waverley Steps with inclusion of new escalators and elavators | PRINCES STREET Traffic management issues when Infraco in Princes Street should this project require deliveries, craneage or Traffic management in same time period | Feb- 09 | Nov- 09 | Jun-10 | May-12 | Under the revised Waverley Steps programme received 7/5/9 Tramworks will be complete in this area prior to Waverley Steps works progressing. Downgraded from Amber to green May09. |
| Waverley Steps | Transport Scotland | Refurbishment of existing Waverley Steps with inclusion of new escalators and elavators | ST.ANDREW STREET Traffic management issues when Infraco in Princes Street should this project require deliveries, craneage or Traffic management in same time period | Jan- 10 | Mar- 10 | Jun-10 | May-12 | Under the revised Waverley Steps programme received 7/5/9 Tramworks will be complete in this area prior to Waverley Steps works progressing. Downgraded from Amber to green May09. |

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| Waverley Station Re- roofing | Transport Scotland | New roof and general upgrade to station interior | May be Traffic Management issues | Feb- 09 | Mar- 10 | Apr-10 | Apr-14 | Although the tram main construction works will be complete by end Mar-10 this area will be revisited in Q4 2010 for OHL installation. |
|---|--------------------------|---|---|------------|------------|----------|----------|--|
| New Hotel in Haymarket | Tiger Developments | New build hotel | Utility diversions continue until Jul.2009Potential Interface with Infraco works at Haymarket junction commencing Jul.2009 | Jan- 09 | Apr- 10 | TBA | 2012 | Haymarket junction re-construction is 6 phases due to complete Nov-09 although Shandwick Place will still be under construction to January 2010 with Torphichen to follow. Meeting held with Tiger Developments, Capita Simmons (Project Managers), Dunne Construction (enabling contractor) and CEC on Friday 22nd August 08. Outcome is that risk is greatly diminished. |
| Haymarket Interchange | First Scotrail | Capacity Increase Project - Installation of new lifts and walkways from Haymarket Terrace | Utility diversions continue until late June 2009 Potential Interface with Infraco works at Haymarket junction commencing July 2009 | Now | Apr- 10 | Dec-11 | Dec-12 | NR/Edinburgh Tram Project Delivery Group Meeting 11 Buchanan House, Edinburgh 08 April 2009 ScotRail are required under their franchise to install lifts due to the uncertainty over the integrated scheme at Haymarket. ScotRail will progress but it will be at the end of their Franchise 2011/12. |
| Haymarket Station Re- furbishment | Network Rail/Scotrail | Main Building refurbishment works | Any external works could conflict with TM for either or both MUDFA and Infraco and could conflict with Infraco construction works. Bridge to be installed from Haymarket terrace to Platform 0 to comply with DDA | Now | Apr- 10 | N/A | N/A | NR/Edinburgh Tram Project Delivery Group Meeting 11 Buchanan House, Edinburgh 08 April 2009 ScotRail are required under their franchise to install lifts due to the uncertainty over the integrated scheme at Haymarket. ScotRail will progress but it will be at the end of their Franchise 2011/12. |
| Haymarket Station | First Scotrail | Installation of new lifts and walkways from Haymarket Terrace | Construction of Haymarket viaduct | Now | Apr- 10 | Jan-10 | ТВА | Constant Production |
| Haymarket Terrace | DTZ Surveyors | Common Repairs to buildings at 2- 4-6-8-68 & 74 Haymarket Terrace | Scaffolding and external repairs | Now | Apr- 10 | May-09 | ASAP | Scaffold erected and building repairs underway between Infraco TM phases. |
| Haymarket Yards | TESCO | New Finance Centre | Dependent on fit-out may interface with Infraco works | Now | Apr- 10 | Complete | Complete | Fit out complete. Will be populated from mid May 2009 |
| Pollution Prevention Works | Network Rail/Scotrail | Re-location of existing diesel tanks at Haymarket Sprinter Depot | Interface with S21A Roseburn Street viaduct and associated track | Mar- 10 | Mar- 11 | Complete | Complete | Diesel tanks demolished & site cleared-up VE design on Roseburn viaduct has seen this structure re-programmed. |
| RBS Tramstop - Gogarburn | RBS | Design by RBS - Build by Infraco | Design and consents not in place in a timely manner to allow Infraco to build to programme | Sep- 10 | Feb- 11 | ТВА | ТВА | Design and approvals progressing to programme. |

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| New Hotel adjacent Ocean Terminal | Ocean Points Development Limited | New build hotel | Potential conflict with Infraco dependent on timescales. To be monitored. | Sep- 09 | Apr- 12 | ТВА | ТВА | To be monitored. |
|---|--|--|---|------------|------------|---------------|---------------|---|
| Former Bus & Tram Depot nr Shrub Place | Fraser & Neave | Transformation of former Tram and Bus Depot into 121 room serviced apartments. | None identified. Dependent on timescales. | Now | | ТВА | ТВА | |
| Shrubhill House | Unite | Transformation of former council social work headquarters into 200 bed hotel | None identified. Dependent on timescales. | Now | | ТВА | ТВА | Awaits planning consent. |
| NATO Conference | | date of the conference is Friday 13th November 2009 to Tuesday 17th November 2009 (inclusive) and it will be held at the EICC, Morrison Street, Edinburgh. 600+ delegates expected | Potential Interface with Infraco works at Haymarket junction | Jan- 09 | Nov- 09 | 13-Nov- 09 | 17-Nov- 09 | Haymarket junction re-construction is 6 phases due to complete Nov-09 although Shandwick Place will still be under construction to January 2010 |

Colour code

| Octobri oc | do . | |
|------------|--|--|
| Green | No conflict anticipated but being monitored | |
| Amber | Managing any conflict | |
| Red | Conflict which causes programme concern / unknown effect on tram programme | |

This has been sent to TS for their input for projects they are sponsoring and will continue to be reviewed by tie to identify any potential impacts on the Tram programme as early as possible in order to manage them. A review of the TS projects was carried early June 2009 with TS. A further session has still to be arranged for Period 5 09/10.

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2.8. Other

Temporary traffic regulation orders (TTROs)

- Weekly visual summary being produced of all tram traffic management throughout city.
- Successful switch of traffic from South St David's South St Andrews St.

Traffic regulation orders (TROs)

- A TRO programme is in place to ensure that the first order TRO 1, which will allow for operation of
 the tram system, is made by October 2010. The informal consultation process for this has been
 completed and BSC are incorporate minor design revisions into the final design. tie are currently
 awaiting a set of TRO drawings to enable the statutory consultation process to commence
 (anticipated Aug 14th 2009).
- Traffic management planning ongoing for Princes St Phase 3, Haymarket and Picardy Place.

Network Rail

- INFRACO has now delivered its EMC Management Plan and EMC Strategy for NR infrastructure assets and established the scope for the immunisation works. A programme for these works is being developed with INFRACO;
- INFRACO will be developing the full assurance case for NR acceptance. Preliminary
 assurance case to enable traction power testing and commissioning will be completed by
 August 2009. Further assurance will be provided up to, and including, bringing into service;
- · The Relocation of the Diesel tanks has been completed;
- A local agreement with First ScotRail has been reached to accommodate any potential overlap between completion of the pollution prevention activities and commencement of the INFRACO works, and
- The contractor has submitted for ROTR possessions according to the look-ahead programme.

Third party interfaces

- NR the Bridge Agreements are not yet concluded. There is an outstanding issue on indemnities to close out. CEC are taking this matter up directly with TS. An Operating Agreement with NR is currently with tie/TEL;
- Forth Ports expecting imminent execution of agreement, awaiting FP final drafting comments prior to closure;
- Haymarket carpark compensation tie have agreed compensation with NR and will settle
 this in Q1 09/10. tie continue to discuss with TS the additional compensation payable to
 First ScotRail, as a result of the extension of the FSR franchise from Nov 2011 to Nov
 2014, as it is believed to be a TS cost;
- Building fixings deemed consent has been obtained from 306 owners as well as 66 consents with the owners' agreement. There are twelve fixings where matters remain unresolved and CEC have committed to pursue these through Sheriff Court action. Dates for hearings are to be established. The building fixing construction programme will commence in Spring 2010;
- Interfaces are being managed to ensure that the SRU accommodation works and events
 are cohesive. tie have now agreed approach to the design and construction of the works
 with SRU, and
- Waverley Steps TAWS NR, CEC/tie and Lothian Buses are engaged in discussions on programme and traffic management arrangements in advance of the TAWS inquiry scheduled for 22 July.

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Fast link modifications (Front Line)

· Work is now complete with snagging now taking place.

Murrayfield Pitches (Souters)

 Final accounts now agreed. Subject to works being carried out during maintenance and establishment period.

Ancient Monuments (Land Engineering).

Robert Burns Monument

 MUDFA currently awaiting IFC drawings for the works at Baltic Street junction. No MUDFA TM details available at present for the junction – LE to submit draft TM to facilitate removal of the monument.

BAA - Burnside Road (BAA)

- BRR Option 4B layout has now been commented on by BAA Stakeholder. Final design has been issued.
- BRR Design Design is virtually complete.
- BRR Tenders: Contract has been awarded to Raynesway construction on 17/07/2009. Site start date on 10th Aug 09.

Section 7 Utilities

Utility works – Site commenced 06/07/2009 and progressing as per programme.

Hilton Car Park & Phase 1

 INFRACO – No works have commenced. Reviewable Tram Works Design (RTWD) Issued. BAA response received. Two objections raised.

Gogar Interchange

 Design kick off meeting held between tie, Transport Scotland & Network Rail. A design workshop being arranged to include all parties.

Section 1A Utilities

PQQ's sent out to 14 companies. 7 have been returned to date.

Archaeological works at Constitution Street (Frontline):

- The archaeological works in Constitution Street and road reinstatement are now complete on the wall side of the road for the full length of 106 metres. No further remains were found in the section from CH 95 to 106, and
- Funding provided by CEC to deal with an unstable cemetery wall in Constitution Street.

3 Headline cost report

3.1 Current financial year

| | c | FY 09/10 OWD Period | 1 | COM | FY 09/10 D Year To I | Date | FY 09/10 COWD Full Year Forecast | | | COWD Costs To Date To Go | | Total AFC |
|--------------------|--------|------------------------|----------|--------|-------------------------|----------|-------------------------------------|---------|----------|--------------------------|----------|--------------|
| | Actual | Budget | Variance | Actual | Budget | Variance | Forecast | Budget | Variance | Actual Forecast | Forecast | Forecast |
| Total Project COWD | 7.560 | 7.157 | 0.404 | 31.022 | 28.180 | 2.842 | 150.084 | 150.072 | 0.013 | 262.041 | 265.058 | 527.099 |
| Other Funding | 0.624 | 0.591 | 0.033 | 2.561 | 2.327 | 0.235 | 12.656 | 12.391 | 0.265 | 21.636 | 22.150 | 43.786 |
| Demand on TS | 6.936 | 6.566 | 0.370 | 28.460 | 25.853 | 2.608 | 137.428 | 137.680 | -0.253 | 240.405 | 242.908 | 483.313 |

- The budget for Phase 1a in 2009/10 is £150.1m which has been produced linking the tie re-baselined programme to INFRACO construction milestones. tie are currently in the process of agreeing an updated programme with the INFRACO contractor.
- In addition to phase 1a (£150.1m) 2009/10 costs, the budget also includes potential additional costs of £3.2m which relate to the postponement of Phase 1b INFRACO construction contract;
- Funding available from TS for the project in 2009/10 is £149m. The TS share of this
 year's budget (£153.3m) is £140.6m, giving available headroom of £8.4m.

Actual YTD P4 & forecast P5-P13 FY09/10

| £m | YTD P 4 | Forecast P5- P13,09/10 | Total FY09/10 |
|-----------------------------|------------|---------------------------|---------------|
| Infrastructure and vehicles | 19.9 | 104.6 | 124.5 |
| Utilities diversions | 5.6 | 2.2 | 7.8 |
| Design | 0.9 | 0.4 | 1.3 |
| Land and compensation | 0.6 | 1.0 | 1.6 |
| Resources and insurance | 4.0 | 9.7 | 13.7 |
| Base costs | 31.0 | 117.9 | 148.9 |
| Risk allowance | 0.0 | 1.2 | 1.2 |
| Total Phase 1a | 31.0 | 119.1 | 150.1 |

- COWD to Period 4 is £31.0m (Period 3 £23.5m) against budget £28.2m. The main drivers for the £2.8m variance are: the timing of INFRACO and Tramco costs forecast in 2009/10 (£0.8m); Offset by a fall in PM costs (-£0.5m) and MUDFA costs variance (£2.6m).
- Tramco production activity is running ahead of schedule; this is reflected in the Tramco
 construction works forecast profile. It should be noted that the Tramco forecast has
 been amended with the release of the advanced payment now being smoothed
 periodically rather than quarterly to avoid 'spikes' in the cash application.
- As previously reported and agreed with CEC and TS, initial milestones under the INFRACO and Tramco contracts in the aggregate amount of £24.2m, in respect of advance material purchases, have been classified as prepayments. These will be reclassified as expenditure against funding in the periods when the related materials are delivered to site and incorporated in the works. The release will occur on the achievement of trackwork and structures milestones in 2009/10 and future years.

3.2 Current financial year profile

Profile for FY09/10 - Phase 1a only

| £m | Q1 | Q2 | Q3 | Q4 | Total FY09/10 |
|-----------------------------|--------|--------|---------|----------|---------------|
| 9 | (p1-3) | (p4-6) | (p7-10) | (p11-13) | |
| Infrastructure and vehicles | 16.0 | 18.1 | 60.9 | 29.5 | 124.5 |
| Utilities diversions | 3.2 | 4.6 | 0.0 | 0.0 | 7.8 |
| Design | 0.7 | 0.6 | 0.0 | 0.0 | 1.3 |
| Land and compensation | 0.6 | 0.8 | 0.1 | 0.1 | 1.6 |

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| Resources and insurance | 2.9 | 3.3 | 4.3 | 3.3 | 13.7 |
|-------------------------|------|------|------|------|-------|
| Base costs | 23.5 | 27.3 | 65.3 | 32.8 | 148.9 |
| Risk allowance | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 |
| Total Phase 1a | 23.5 | 27.3 | 65.3 | 34.0 | 150.1 |

- A full reforecast of the cost profile was produced which links the re-baselined programme to INFRACO constructions milestones. The realigned base costs and risk have then been linked against this programme; and
- The latest forecast for 2009/10 shows base cost of £148.9m and risk £1.2m, giving a
 total phase 1a cost of £150.1m. There is no movement in outturn forecast in the period.
 This will be re-assessed on agreement of an updated programme with the INFRACO
 contractor.
- Key sensitivities to the outturn forecast towards the end of 2009/10 are: Balgreen Road bridge £0.5m, Russell Road retaining wall £0.5m, Section 1A Utilities £2.5m, Depot works (and access bridge) £0.9m and Trackwork £1.2m.
- The cost profile above shows a ramp-up in activity throughout 2009, with base costs increasing from £23.5m in Q1 to a peak of £65.3m in Q3. This reflects the anticipated shift in INFRACO milestone activity from Q1 to Q3.

3.3 Total project anticipated forecast cost

Re-baselined Phase 1a AFC and profiling

| £m | Cum | Actual | FY | FY | FY | AFC |
|-----------------------------|---------|--------|-------|-------|-------|-------|
| | FY07/08 | 08/09 | 09/10 | 10/11 | 11/12 | |
| Infrastructure and vehicles | 30.7 | 45.4 | 124.5 | 108.6 | 2.4 | 311.6 |
| Utilities diversions | 18.4 | 33.4 | 7.8 | 0.0 | 0.0 | 59.6 |
| Design | 21.4 | 4.7 | 1.3 | 0.0 | 0.0 | 27.5 |
| Land and compensation | 16.8 | 1.7 | 1.6 | 0.2 | 0.0 | 20.3 |
| Resources and insurance | 42.7 | 15.8 | 13.7 | 7.8 | 2.9 | 82.9 |
| Base costs | 130.0 | 101.0 | 148.9 | 116.5 | 5.3 | 501.7 |
| Risk Allowance | 0.0 | 0.0 | 1.2 | 18.4 | 5.8 | 25.4 |
| Total Phase 1a | 130.0 | 101.0 | 150.1 | 134.9 | 11.1 | 527.1 |
| Phase 1b postponement | 3.0 | 0.0 | 3.2 | 0.0 | 0.0 | 6.2 |
| Total Phase 1a and Phase 1b | 133.1 | 101.0 | 153.3 | 134.9 | 11.1 | 533.3 |

- The table above reflects the base costs and risks aligned to the re-baselined programme and realignment of the INFRACO milestones schedule. The AFC for Phase 1a above includes an
 unapproved increase of £15.1m to the project risk allowance. The approved cost estimate for
 delivery of Phase1a of the project remains at £512m. The phasing of the £527.1m plan remains
 in-line with period 3 and will be updated when there is an updated agreed programme with the
 INFRACO contractor.
- The latest forecast view includes £3.2m of costs relating to Phase 1b which may crystallise as contractually payable to BSC due to the postponement of Phase 1b (this will require to be covered by current funding). Coupled with the re-baselined forecast, there is £11.7m of funding headroom within the £545m total funding available; and the Project Management Panel (PMP) is up and running and being used by tie and INFRACO senior management to flag key issues and ensure proactive engagement to resolve issues and progress Tram construction works.

4 Time schedule report

4.1 Report against key milestones

In advance of developing agreement with BSC, **tie** has developed an <u>unapproved</u> recalibrated baseline programme which reflects an Open for Revenue Service date of 23 Feb 2012. A completely unmitigated programme <u>as a control scenario only has also been produced</u> which shows a date of 17 Oct 2012. However, the live programme has been used to generate the milestone data below and this is based on all current information fed into the master programme. This indicates an open for revenue service date of September 2012.

(The agreed baseline programme reference for this project is that at Financial Close leading to revenue service in July 2011.)

| Milestones | Baseline programme date | Actual / current forecast date live |
|---|-------------------------------|-------------------------------------|
| Approval of DFBC by CEC | 21 Dec 06A | 21 Dec 06A |
| TRO process commences | 14Dec07A | 10-Dec-07A |
| MUDFA – commencement of utility diversions | 02 Apr 07A | 02 Apr 07A |
| Approval of FBC by TS – approval and funding for INFRACO / Tramco | 09 Jan 08 | Dec 07A |
| Tramco / INFRACO – award following CEC / TS approval and cooling off period and SDS novation. | 28 Jan 08 | 14 May 08A |
| Construction commences | 14-Apr-08 | 14-May-08A |
| Haymarket viaduct commences | 08-May-08 | 01-Sep-08A |
| Edinburgh Park viaduct commences | 06-Aug-08 | 01-Sep-08A |
| A8 underpass commences | 08-Aug-08 | 28-Aug-08A |
| Carrick Knowe Bridge commences | 21-Aug-08 | 19-Aug-08A |
| Demolition of Wanderers clubhouse | 25-Aug-08 | 02-Nov-09 |
| All demolition work complete excluding Wanderers clubhouse | 22-Aug-08 | 08-Jan-10 |
| Tram mock-up delivered | Oct 2008 | Nov 2008A |
| First track installation commences – on street | 03-Nov-08 | Jun 2009A |
| Utilities works complete | Nov 2008 | Nov 2009 |
| Haymarket viaduct complete | 08-Dec-08 | 22-Feb-10 |
| Roseburn viaduct commences | 20-Jan-09 | 05-Jul-10 |
| Design assurance complete | 20-Jan-09 | Jan-10 |
| All Issue for Construction (IFC) drawings delivered (inc Gogar interchange design) | 21-Jan-09 | Feb-10 |
| Princes Street closed | 03-Feb-09 | 22-Feb-09A |
| Roseburn viaduct complete | 20-Apr-10 | 13-Jun-11 |
| Carrick Knowe bridge complete | 11-May-09 | 23-Feb-10 |
| All consents and approvals granted | 18-May-09 | Jan-10 |
| Edinburgh Park viaduct complete | 24-May-09 | 12-Nov-09 |
| A8 underpass complete | 14-Jul-09 | 14-Oct-10 |
| Princes Street re-opened | 01-Aug-09 | 25-Nov-09 |
| NR immunisation complete | Nov 2009 | Nov 2009 |
| TRO process complete | 01-Dec-09 | Oct-10 |
| 1 st OHL installed (Commence Section 2) | 11-Dec-09 | 06-Oct-10 |
| Commission Section 2 (Haymarket to Roseburn junction) | 11-Jan-10 | Dec-10 |
| Commission Section 6 (depot) | 25-Mar-10 | May-11 |
| 1 st Tram delivered | 09-Apr-10 | 09-Apr-10 |
| Test track complete | 23-Apr-10 | Aug-11 |
| 1 st section (other than depot) complete ready for energisation | 25-June-10 | Nov-10 |
| Commission Section 7 (Gogar to Edinburgh Airport) | 25-June-10 | Sep-11 |

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| Driver recruitment commences | July 2010 | Oct-10 |
|--|--|--------------------|
| Commission Section 5 (Roseburn junction to Gogar) | 09-Nov-10 | Mar-12 |
| Driver training commences (excludes depot) | Nov 2010 | Apr-12 |
| Driver training commences (depot only) | Dec-10 | Jan-11 |
| System testing complete off street | 09-Dec-10 | Apr-12 |
| Final tram delivered | 17-Jan-11 | 17-Jan-11 |
| Construction Line 1a complete | 17-Jan-11 | Mar-12 |
| System testing complete on street | 16-Feb-11 | Apr-12 |
| Commission Section 1 (Newhaven to Haymarket) | 11-Mar-11 | Mar-12 |
| Letter of "no objection" from Independent Competent Person | 17-Apr-11 | Jun-12 |
| to commence tram running | STATE OF THE PARTY | |
| Shadow running starts | 18-Apr-11 | Jun-12 |
| Shadow running complete | July 2011 | Sep-12 |
| Letter of "no objection" from Independent Competent Person | July 2011 | Sep-12 |
| to commence revenue service | | A TOTAL CONTRACTOR |
| Open for revenue service | July 2011 | Sep-12 |

Guidance for Completion: Legend for colouring of Actual / forecast date text

Actual / forecast date is ahead or in line with baseline
Slight slippage – readily recoverable with action.
Significant slippage but expect recovery can be achieved
Notable / significant slippage – difficult to recover, even with action. Pink Red:

4.2 Key issues affecting schedule

Programme is one of the priorities of the PMP and a refresh of the key issues affecting schedule will be provided in future periods following engagement with BSC.

4.3 12-week look-ahead

| Milestones | Actual / current forecast date |
|--|--------------------------------------|
| 5C Trackworks Depot Stop to Gogarburn | 11-May-09A |
| 1C Complete SGN diversion & BT Installation works at Mound junction ** | 12-Jun-09A |
| Depot Access Roads – Track & Stabling | 20-Jul-09 |
| 5B Trackworks Balgreen Rd Saughton Road North | 27-Jul-09 |
| 5B Trackworks Bankhead to Edinburgh Park Stn | 27-Jul-09 |
| 1B Complete Utility diversions Foot of the Walk to Balfour Street | 07-Aug-09 |
| 1B Complete Utility diversions Balfour Street to McDonald Road | 07-Aug-09 |
| 6 – Depot Building Foundations | 21-Aug-09 |
| 1A Complete Victoria bridge temporary utility diversions | 24-Aug-09 |
| 1A Complete Tower bridge temporary utility diversions | 24-Aug-09 |
| 2A S19 Haymarket viaduct re-commences | 24-Aug-09 |
| 5B Trackworks Saughton Rd to Bankhead | 25-Aug-09 |
| 1C Commence Utility diversions at Broughton St junction | 31-Aug-09 |
| 2A Track works Haymarket to Roseburn Junction | 07-Sep-09 |
| W3/W4 Russell Road retaining walls | 08-Sep-09 |
| 1D Complete Utility diversions works Lothian Rd junction | 14-Sep-09 |

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| 1B Leith Walk Road Works can re-commence | 14-Sep-09 |
|---|-----------|
| S20 Russell Road bridge | 28-Sep-09 |
| 6 - Depot Sub-Station | 05-Oct-09 |
| 1C Complete Utility diversions works St Andrews Square to Princes Street West | 19-Oct-09 |
| 5A Demolition of Wanderers Clubhouse | 20-Oct-09 |
| 1A Complete Utility Diversions between Port of Leith and Bernard Street | 21-Oct-09 |
| 1C Complete Utility diversions works MacDonald Road to Picardy Place | 22-Oct-09 |
| 1D Roadworks Haymarket junction | 23-Oct-09 |
| 1A Complete Utility Diversions between Newhaven and Ocean Terminal | 06-Nov-09 |
| 1A Complete Utility Diversions between Bernard Street and Foot of the Walk | 16-Nov-09 |
| 1D Roadworks/ Trackworks Shandwick ch850-440 | 24-Nov-09 |
| 1C Complete track installation on Princes Street* | 25-Nov-09 |

^{*}Works recommenced 23rd March 09.

** Princes Street footprint handed-over to Infraco with Utility works continuing in Hanover Street until 14-Aug-09.

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5 Risk and opportunity

5.1 Review of risk register

Summary

There were six risk reviews held in the period. One item was close on the Infraco concerns register. There were two risk draw downs approved in the period totaling £2,410,908. These were for the works below the earthworks outline which were carried out under the Princes Street Supplemental Agreement and the additional cost of full depth road reconstruction at Princes Street plus the additional CEC staff costs associated with the delay in design approvals. This leaves a risk and contingency balance of £17,011,775 (based upon the approved Project Risk Allowance at Financial Close).

Risk and Opportunity Reviews

The following reviews took place in the period:

| Date | Format of review | Attendees | Comments | | |
|---------|---|---|--|--|--|
| 30/6/09 | Change and Risk Review | ge and Risk Review Project Risk Manager Infraco QS Cost Control Manager | | | |
| 13/7/09 | Roads and Drainage Risk Review | Project Risk Manager Project Manager | All Risks and Treatment Plans Reviewed | | |
| 13/7/09 | Princes Street Risk Review | Project Risk Manager Project Manager | All Risks and Treatment Plans Reviewed | | |
| 14/7/09 | Structures Risk Review | Project Risk Manager Project Manager | All Risks and Treatment Plans Reviewed | | |
| 14/7/09 | Signalling, Communication and Control (SCC) Risk Review | Project Risk Manager SCC Project Risk Manager | Risks identified and treatment plans created | | |
| 15/7/09 | High-level Infraco Risk Review | Project Risk Manager Infraco Director | Risks and Treatment Plans Reviewed | | |

Risk Register

The Primary Risk Register is attached at Appendix D. The Primary Risk Register contains those high impact risks which are impacting (or have the potential to impact) the project at this moment in time. In addition, the potential risks identified in regard to programme slippage are being reviewed periodically and will form part of the updated QRA. There are 47 risks in the risk register. The top five project risks are listed on the following pages.

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Top 5 Risks - Period 04 2009/10

| ARM Risk ID | Cause | Risk Description Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
|-------------|--|---|--------------------------------------|------------|--------------|------------|---|--------------------|-------------------|-------------|-----------------|
| 343 | General delay to programme with | Delay to completion | Increased out-turn cost due to delay | S Bell | High - 25:00 | | Programme management paid. | On Programme | On programme | 30-Dec-09 | F McFadden |
| | various causes e.g. failure to obtain | of project | plus revenue loss | | | | Weekly tie/BSC | On Programme | On Programme | 30-Dec-11 | D Murray |
| | approvals on time; parliamentary processes, contractor issues. | | | | | | Liason between tie/BSC programme managers | On Programme | On Programme | 30-Dec-11 | T Hickman |
| 1077 | Base Date Design Information to Issued For Constructions (BDDI-IFC). Lack of visibility of design changes between | Tramworks price based on a design which may have been altered. Unclear who authorised design | Additional cost and programme delay | I R Bell | High - 25,00 | Ĺ | Establish a process which will act as a control mechanism for design changes. (If one exists already then ensure process is complied with) | On Programme | Complete | 30-Jun-09 | T Glazebrook |
| | November 2007 and May 2008 | channa | | | | | Intensive Mediation Marathon 29/6/09 to 6/7/09 to try and resolve issues. | N/A | Complete | 30-Jun-09 | S Bell |
| | | | | | | | Mediation resulted in no overall agreement on BDDI-IFC although it gave useful background information. Strategy paper to be presented to TPB on 29 July to seek approval for way forward including utilising necessary contract mechanisms (DRP, audit etc) | N/A | On Programme | 14-Aug-09 | S Bell |

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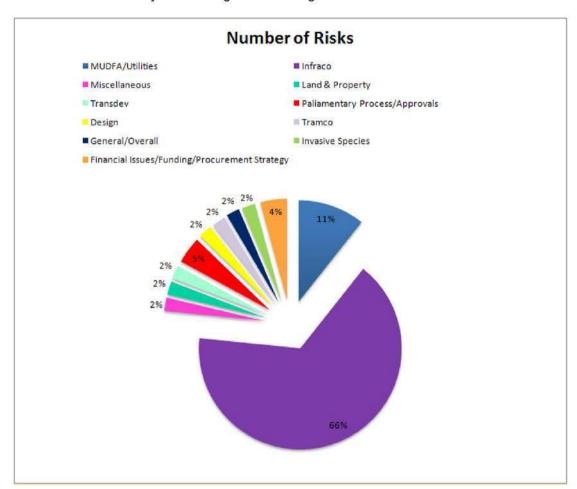
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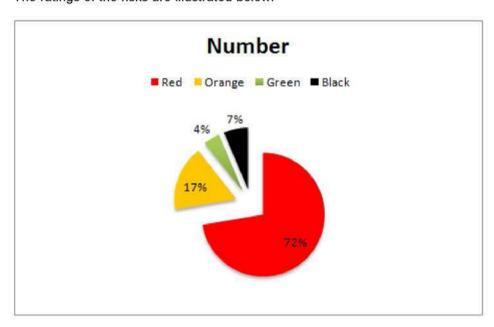
| 1091 | | Excavation of soft, unsuitable material below Earthworks outline | Additional cost | F McFadden High - 25,00 | Extent of soft ground being investigated. External specialist advice deployed. | N/A | On Programme | 31-Dec-09 | M Paterson |
|------|--|---|---|-------------------------|--|--------------|--------------|-----------|------------|
| 1101 | Unreasonable behaviour of BSC commercial management | Unrealistic estimates being submitted for potential changes | Programme delay while disputes regarding estimates are resolved | F McFadden High -25.00 | All estimates to be scrutinised by tie commercial team and, where appropriate, challenge made to BSC. Additional resource (T&T) being used to check estimates to reduce delay. | On Programme | On Programme | 30-Dec-10 | M Paterson |
| 1094 | | Roads throughout works require full depth reconstruction | Programme impact plus additional costs. £1.5m cap applies | F McFadden High-24.00 | Carry out surveys to confirm extent of roads requiring full depth reconstruction | N/A | Complete | 30-Jun-09 | C Neil |
| | | | to only 4 areas. Total exposure estimated at £3m | | Suite of options from surveys to be reviewed and agreement reached | N/A | On Programme | 31-Oct-09 | M Paterson |

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The risks within the Project Risk Register are categorised below.



The ratings of the risks are illustrated below.



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New risks and concerns

The Project Risk Manager, in conjunction with the relevant director, agrees which concerns are escalated to risks and are added to the Project Risk Register. New risks are discussed in section 5.3. There were no items added to the Infraco Concerns Register or the Project Risk Register in the period. The following concern was closed on the Infraco Concerns Register as the telecoms diversions are now complete in this area.

| Discipline | i | Risk description | | | | | | | | |
|------------|----------------|--|--|------------------------------------|--|--|--|--|--|--|
| | Risk Number | Cause | Risk Event | Elfect | | | | | | |
| Structures | 32 | The state of the s | South Gyle Tram Stop Retaining Wall: BT and Easynet diversion work not completed till end Feb 09 - work was due to start Sept 06 | Delay and disruption to programme. | | | | | | |

5.2 Risk action plan for next three periods

The following treatment plans are due for completion in the next three periods.

| Action Owner | Risk ID 🕶 | Action ID 🔻 | Action Name | Due 🔻 | Active ~ | Complete • | Late • | Next 3 |
|--------------|-----------|-------------|--|------------|----------|------------|--------|----------|
| A 1811 | 454 | 40 | In conjunction with MUDFA, undertake trial excavations to confirm locations of utilities and inform designer. All complete but section 1A1 and York Place to Picardy Place | 0 101 | | | | 2011 |
| A HIII | 164 | | outstanding. | 30/07/2009 | - | No | No | Period 5 |
| A HIII | 931 | | MUDFA trial holes to verify GPR surveys In conjunction with MUDFA, undertake trial excavations to confirm locations of utilities and inform designer. All complete but section 1A1 and York Place to Picardy Place outstanding. | 30/07/2009 | | No No | No | Period 5 |
| F McFadden | 1090 | 666 | Tender docs issued based on scheme design information. Pre-tender estimate produced and final design ongoing. Delivery of tenders final outcome can be predicted. SDS to review and identify high risk arear. Additional | 30/07/2009 | Yes | No | No | Period 5 |
| F McFadden | 336 | 662 | control measures to be added by tie. Solution to be developed to manage the issue of the | 31/07/2009 | Yes | No | No | Period 5 |
| G Barclay | 164 | 664 | underground structures at Picardy Place and Lothian Rd and the cellar in York Place. | 31/07/2009 | Yes | No | No | Period 5 |
| G Barclay | 1084 | 654 | Assess TM implications to minimise enabling works and additional cost | 31/08/2009 | Yes | No | No | Period 6 |
| G Barclay | 1085 | 655 | Where applicable pursue third party funding | 31/08/2009 | Yes | No | No | Period 6 |
| G Barclay | 139 | 664 | Solution to be developed to manage the issue of the underground structures at Picardy Place and Lothian Rd and the cellar in York Place. | 31/07/2009 | Yes | No | No | Period 5 |
| l Clark | 914 | 573 | SDS to obtain consent for design in accordance with programme requirements - SGN and Scottish Power. Complete with the exception of plate 15 and the redesign of the affected utilities at Palmerston Place | 30/08/2009 | Yes | No | No | Period 6 |
| M Blake | 911 | 628 | Liase with Scottish Power to agree and approve method of crossing tunnel | 30/07/2009 | Yes | No | No | Period 5 |
| M Blake | 914 | 557 | SDS to obtain consent for design in accordance with programme requirements - SGN and Scottish Power. Complete with the exception of plate 15 and the redesign of the affected utilities at Palmerston Place | 31/08/2009 | Yes | No | No | Period 6 |
| R Bell | 1076 | 645 | Tramworks PMs attendance at Traffic Management meetings. Weekly meetings between tie Tramworks and Utilities PMs. 4-weekly tie Tramworks/Utilities management meetings. Identification of programme clashes between Tramworks and Utilities works tracked. | 31/07/2009 | Yes | No | No | Period 5 |

5.3 Cost Quantative Risk Analysis

The Project Risk Allocation has reduced by £2,731,806 in the period. All draw-downs are shown in the table below. The current Project Risk Allocation (based on the approved budget) is £17,011,775.

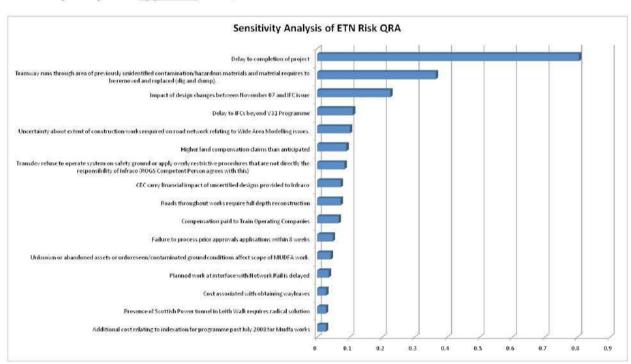
All existing risks, as well as those recently added, are being reviewed to ensure the QRA output is as accurate as is reasonably possible. It is accepted that the additional risks and increase in QRA output are currently <u>unapproved</u>. These are within the <u>unapproved</u> range in costs provided to TS on 26th May. **tie** will continue to report on the risk allocation at Financial Close until a new budget (with an updated QRA) is approved.

Risk drawdown

The following table includes the approved drawdown applications on the project risk allocation in Period 4.

| Description | Owner | Value (£) |
|--|------------------|------------|
| CEC costs - staff recharges | A Coyle | 400,000 |
| Risk drawdown 1091+35 Princes Street Supplemental Agreement | M Paterson | 2,010,908 |
| Abortive estimates | M Paterson | 6,498 |
| Dressing of City During Festival - tie contribution | M Haeburn-Little | 50,000 |
| Tram inspector | A Richards | 264,400 |
| | Total | £2,731,806 |

Sensitivity analysis of approved cost QRA.



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The above chart highlights those component risks which are correlated most closely with the overall risk allocation. These risks are the ones which, if changed in terms of probability or impact, would have the most significant effect on the final output.

5.4 Schedule QRA

tie is currently working with the supplier of Active Risk Manager (ARM – the risk management software which tie uses) with a view to integrating Primavera and ARM so that a schedule risk analysis can be developed. A schedule QRA will be created following agreement of the recalibrated programme.

6 Health, safety, quality and environment

| HS&E ACCIDENTS a | nd INCIDENT | SSUN | MARY | | | | | | | | |
|------------------------|-------------|-----------|-------|--------|------------------------|-------------------|-----|-----|-----|------|-------|
| Project Running Totals | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | МОР | AFR | SFR |
| Period | 133,001 | 0 | 1 | 2 | 8 | 15 | 0 | 1 | 5 | 0.75 | 11.28 |
| Year to Date | 547,380 | 0 | 1 | 12 | 62 | 49 | 0 | 4 | 19 | 0.18 | 8.95 |
| 13 period rolling | 1,536,764 | 1 | 4 | 36 | 206 | 194 | 3 | 17 | 90 | 0.33 | 12.62 |

6.1 H&S accidents and incidents, near misses, other or initiatives



An accident occurred outside a Carillion site during period 4. An 82 year old woman fell after catching her heel on a temporary ramp on a pavement. This has been classed as a reportable accident by Carillion but was not directly as a result of the construction activities. Taking this into account, the Accident Frequency Rate rises to 0.33, however, if this accident is "ruled out" as it was not as a result of construction works, the AFR remains at 0.26. A joint investigation is underway by Carillion and tie with a focus on the temporary pedestrian ramps and where they should be used.

Service strikes have decreased slightly over-all during Period 4, however, they have increased for BSC. **tie** are reviewing the last 4 service damages for trends and will report any findings. **tie** will be introducing a specific report format for service damages to be completed by the contractor, this will help identify common themes and trends more easily.

Project Manager Inspections for MUDFA have been 100% of those planned, however, the joint inspection process for Infraco between **tie** and BSC has proved more difficult to achieve the 100%, with 7 out of 8 inspections completed. Scores are yet to be confirmed. This has also been the case for safety tours with 4 out of the 6 planned taking place.

A major operation to connect the new gas main at The Mound and abandon the old one went well. Gas that remained within the 120yr old main after diversion was burned off in a controlled manner.

tie have reviewed the past 12 months MOP incidents and have identified particular risk areas that will be given specific focus with our contractors prior to the Edinburgh Festival. The main areas to be targeted will be adequate reinstatements and boundary fencing

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6.2 Environment

Noise complaints received for Carillion works in Constitution Street during the night. Investigation carried out and action taken to prevent reccurence. IEMA, (Institute of Environmental Management and Assessment) have asked if they can visit the project in Period 5 with a group of environmentalists, tie Communications Team have been informed. BSC will be providing the updated Environmental Management Plan to tie on 17th July, this will be reviewed as per the employer's requirements.

6.3 Quality

During Period 3 the second tranche of inspections were carried out under "Deliver a Safe Tram" metrics. Edinburgh Park and Section 7 works were chosen.

| | | Data Checked | | | | | | | |
|---------------------|----------------------------|-----------------------------------|---------|------------------------------------|----------------------------|-----------|----------------|--|--|
| Section | Activity | Interdisciplinary Design Check | Hazards | Inspection and Test Plan System | Design Variation/Change | As Builts | Asset Register | | |
| Edinburgh Park (5B) | Structural Concrete/Reinf | N | Υ | Y | Р | Υ | N/A | | |
| A8 (5C) | Piling (permanent works) | Р | Y | Υ | Р | Υ | N/A | | |
| 7A Gogar | Structural Concrete | TN. | Y | Y | Р | Υ | N/A | | |
| 7A Gogar | Reinforced Earth Works | N | Υ | Y | Р | Р | N/A | | |
| Period 4 | Total (y) | 0.5 | 4 | 4 | 2 | 3.5 | 0 | | |
| | Max Possible Total (y) | 4 | 4 | 4 | 4 | 4 | 0 | | |
| Period 3 & 4 | Average Compliance to date | 6% | 92% | 75% | 50% | 69% | N/A | | |

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

Action taken from last report/Period 3 – the report has been formally sent to BSC with a covering letter requesting confirmation that risks are being mitigated despite not having full IDC in place, this point was further raised in the BSC/tie Period Progress meeting. A tracker has been set up to monitor the close out of areas identified as deficient. Thus far, no finding has been closed. Reply due from BSC 24th July.

Of the 4 activities checked, none have shown evidence of having gone through BSC's Inter-Disciplinary Check process, however, there was evidence that the Piling Works at the A8 had had input from Siemens through a recorded Confirmation of Verbal Instruction (CVI) regarding earthing and bonding requirements. It should also be noted that for the structures, i.e. Gogarburn Bridge, SDS had provided a design certificate proving that the design calculations have been checked and verified.

The inspections showed that Hazards identified in the hazard log had been mitigated before construction had commenced, for example, Risk of Bridge collapse – ensure detailed design complete for structure, evidence witnessed was the design certificate from SDS.

Inspection and test plans - the contractors process for quality control during construction appeared to be to a good and acceptable standard. Contrary to last period, the correct revision of ITP for reinforced concrete pour was being used. Full evidence was in place in all locations

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Changes to design on site were backed up by technical queries from BSC site to SDS, however, there was no evidence to show if the change had been assessed for the need to go through the IDC process.

7 Stakeholder and Communications

7.1 Media / Press Activity

With the recent restructuring of the Communications Team on the Trams Project we are now in the process of implementing a new and refreshed approach to press and media management within the organisation with a focus on proactively working with partners, stakeholders and the wider community to establish more positive coverage within the media generally and to find creative ways of ensuring key messages are delivered effectively and creatively.

This direction, whilst still in its very early stage, is already reaping some rewards, with extensive positive coverage in the Edinburgh Evening News, Scotsman and a number of local publications as well as on radio and television. We are also proactively engaging with key journalists, editors and stakeholders regularly to ensure that they are kept fully up to date with the latest and most accurate of information.

Some of the positive coverage which we've secured during this period includes:

- Richard Jeffrey profile piece The Times
- The removal of the Sherlock Holmes Statue from Picardy Place which was covered by the Evening News and BBC Scotland
- Tram Veterans we launched an 'appeal' through the Evening Times for any former tram
 workers to get in touch. We received 17 contacts from individuals who worked on various
 parts of the old tram network. The Evening News then published a double page spread
 highlighting some of the positive stories from six of the veterans who got in touch.
- Tram Mock-up was also covered in the media recently for passing the 100,000 visitor mark since it was put on display in late February. Interest was also generated from a gas burn off which took place at the Princes Street work site.
- Full page profile piece in the Falkirk Herald about Susan Clark, Deputy Project Director.
- Edinburgh Park Viaduct construction feature Evening News
- Gas Burn-off from 120 year old redundant gas main Evening News
- Badgers re-housed An environmental piece around the Edinburgh Tram's development of new badger sets as part of its commitment to minimising the environmental impact of the project.
- Scotsman Construction feature including an interview with Richard Jeffery.

7.2 Customer Service Activity

The total correspondence for Period 4 numbered 448 - a reduction from period 3. Regarding the Format of correspondence, contact by phone and through face to face meetings constitutes 314 of the total 448 for the period. Face to face meetings have overtaken the number of email contacts

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made to the customer service team from Period 3. This trend has been developing throughout Period 4 and has proved to be an emerging trend over the past few periods.

The subject of correspondence has shown that Information Requests remain the most popular topic for incoming enquires. Info Requests maintain an overwhelming majority with 354 contacts being made during the 4 week period. Period 3's distribution of contacts was very similar with 333 requests for information being made. Important to note is the number of complaints for Period 4 has dropped by 5 to 37 from last period where weekly complaints were consistently high during weeks 2, 3 and 4.

Complaints from this period consisted of a variety of different issues including road closures, noise complaints and blocked access routes by fencing. COCP complaints were also up to 22 for Period 4 compared to Period 3's 14 recorded complaints. Insurance claims over the past 4 weeks have also rose to 10 over the 8 logged last period. The claims were made due to alleged damage caused to a buildings, profits lost due to water shut offs and damage sustained to a member of the public's car. The remaining 25 contacts were related to various other issues.

7.3 Public Information Planning

Notifications for Period 4 consisted of 3 updates for Leith Walk as well as 3 for Constitution Street dealing with the ongoing routine utility diversion works in the area. One extra notification was also issued for Constitution Street regarding the archaeological work which is due to begin on the southbound carriageway outside South Leith Parish Church. Hopetoun Crescent and Carrick Knowe also received notifications on works in their area.

Recorded visitors traffic to the Edinburgh Trams website has dropped to 9252 from Period 3's total of 11,145. However an increase in direct update subscribers indicates that more people are choosing to have information pushed to them by edinburghtrams.com. New social networking initiatives will begin next period to expand and re-invigorate our online presence.

The most frequently visited web pages continue to be "Route Map" and "Story So Far". New video content from Tram TV was posted at the beginning of Period 4 which we anticipate could create a spike in media downloads during Period 5. The introduction of podcasting during next period should also assist in the anticipated spike in downloadable content.

7.4 Logistics

Over the past 4 weeks logistics teams helped with 318 inbound deliveries to businesses in all three areas of Haymarket, City Centre and Leith Walk. The teams were also called on to help with 58 outbound deliveries. Many more outbound deliveries remain unrecorded due to the fact that they would occur as part of many inbound deliveries.

Logistics also continued to assist venues along the tram route with various events including the Assembly Rooms on George Street.

7.5 Partner and Stakeholder Communications

tie's Primary School initiative conducted presentations to five school assemblies during the final two weeks of term before the summer holidays. Recruitment for the new Tramformers Scheme will begin during first term back at school. This will see Primary 6 pupils gaining valuable information from work site visits and tram work events in order to report back to their school on the projects progress. A handbook to accompany the scheme is currently being developed, which will outline the role of the Tramformer and their duties.

Regular meetings are held with local traders associations such as the Leith Business Assembly, Haymarket Traders Association and TOG. Attendance at the traders and business associations takes place monthly with ad hoc meetings throughout Period 3. This is to ensure that they are kept

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up to date with construction works that may affect them and for them to raise any concerns they may have.

A presentation was also given to Braids Rotary Club by a member of the communications team regarding the project, from which there was positive feedback from the audience.

7.6 Freedom of Information Requests - FOI

During Period 4 a total of 7 requests have been responded to with a further 10 requests in the process of being formulated or signed off for sending. 2 requests are currently being reviewed, with one further response being reviewed by the Information Commissioner.

7.7 Process Team Review

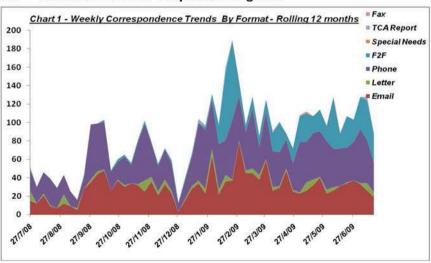
Following a review of the Customer Services and Communications team, a new team structure has been set in place which will ensure that nine areas of the City become designated Customer Response Areas. Under this new structure each area will have a designated Account Manager who has responsibility for ensuring that local communications are delivered efficiently and effectively – this may include a range of options from utilising the tram Bus, the placement of the Tram Mock up, posters, directional signage and graphic signage highlighting and promoting the shops and traders in that area.

Customer information letters are also being redesigned and signage is also at approval stage for large banners and billboard signs which will be used along the Tram route – this will include the Airport and Murrayfield. Plans are also underway with Chris Smith of the communities team at Edinburgh Council and the Economic Development team to review what usage can be made of empty shop window facades in the nine areas as well as in the City Centre.

7.8 Festival

Trams are cooperating with a range of organisations as part of a pan Edinburgh approach to managing and supporting the arrangements for the Festivals. There are a number of joint initiatives underway including the use of information advisers in the City Centre streets, revised Festivals signage, City Centre maps, welcome and directional signing along the Festival route, graphics in St Andrews Square windows and customer information available through social networking sites including facebook and twitter.

7.9 Customer Service Graphs and Figures



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a) Monthly Customer Service Report 22/06/2009 - 17/07/09

| Item | Volume Month | Volume (Cumulative from 21/11/08) | Performance (Month) | Performance (Cumulative) | Target Performance |
|-------------------------------|-----------------|--|------------------------|-----------------------------|---|
| Telephone response | 267 | 2189 | 95 | 98 | 90% in 30 seconds |
| Telephone Same day resolution | 260 | 2117 | 98 | 97 | Info only |
| Email acknowledgement | 116 | 1168 | 100 | | 100% acknowledged within 24 hours |
| Email response | | | 100 | 99 | 90% resolution in 7 days |
| Email same day resolution | 114 | 1048 | 96 | 89 | Info only |
| Letter acknowledgement | 11 | 79 | 100 | | 100% acknowledgement within 24 hours |
| Letter response | | | 100 | 94 | 100% resolution in 7 days |
| Total Enquiry Volumes | 394 | 3436 | | | |
| Website update | 126 | 675 | 100 | 100 | Weekly |

b) Out of Standard/Work in Progress statement at month end 17 July 2009

| | | Volume of WIP @ m/end | Oldest date | Oldest Issue | Handled By |
|---------------------|---------|-----------------------------|----------------------------------|--------------|--------------|
| | Email | 0 | N/A | N/A | N/A |
| M/e 17 July 2009 | Letters | 1 | 25/11/08 (Out of standard) | TRO Process | Alasdair Sim |
| | Calls | 0 | N/A | N/A | N/A |
| | | | | | |

c) Monthly Notifications Performance 22/06/09 to 17/07/2009 and Cumulative from 21 November 2008

0 Major notifications -

10 Minor notification - 7 for utility (all in standard) - 3 for tram works, (1 in standard)

0 Emergency notifications

| Notification Type | Work Site | 12 | Utilities | Tram works | Total | % in Standard |
|-------------------|-----------------|---------------|-----------|------------|-------|------------------|
| | Month | Notifications | 0 | 0 | 0 | |
| Major works | | In Standard | N/A | N/A | N/A | N/A |
| | Cumulative | Notifications | 6 | 4 | 10 | |
| | | In Standard | 0 | 1 | 1 | 10 |
| | Month | Notifications | 7 | 3 | 10 | |
| Minor Works | 100,000 GPU,000 | In Standard | 7 | 1 | 8 | 80 |

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| | Cumulative | Notifications | 39 | 23 | 62 | |
|-----------|------------|---------------|-----|-----|-----|-----|
| | | In Standard | 32 | 14 | 46 | 73 |
| Emergency | Month | Notifications | 0 | 0 | 0 | |
| | | In Standard | N/A | N/A | N/A | N/A |
| | Cumulative | Notifications | 14 | 0 | 14 | |
| | | In Standard | 14 | 0 | 14 | 100 |