

Lothian Buses

Tram Project Board Report on Period 02 Papers for meeting 2nd June 2010

09:30am - 12:00pm

Distribution:

Members and attendees

Cllr Phil Wheeler David Mackay (Chair) Donald McGougan Marshall Poulton Stewart McGarrity Richard Jeffrey Bill Campbell Cllr Allan Jackson Dave Anderson Steven Bell Cllr Gordon Mackenzie Graeme Bissett Kenneth Hogg Brian Cox Alastair Richards Cllr Ian Perry Peter Strachan **Neil Scales** Mandy Haeburn-Little Alasdair Sim (Secretary) Ian Craig

In addition - for information only

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

Transport Edinburgh Edinburgh Trams Lathian Buses

| Lothian Buses | FOISA exempt |
|--|--------------|
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| Period 02 Transport Scotland Report Sections 2-7 | 27 |

FOISA exempt

□ Yes □ No

Agenda Tram Project Board Brunel Suite – Citypoint, 2nd Floor 2nd June 2010 – 09.30am to 12.00pm

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David Mackay (Chair) Cllr Phil Wheeler Donald McGougan Bill Campbell Richard Jeffrey Ian Craig Steven Bell Stewart McGarrity Graeme Bissett Kenneth Hogg Cllr Allan Jackson Alastair Richards Cllr Ian Perry Cllr Gordon Mackenzie **Neil Scales** Marshall Poulton Brian Cox Mandy Haeburn-Little Dave Anderson Susan Clark

Alasdair Sim (Minutes)

Apologies:

| 1 | Revie | w of Previous Minutes and Matters Arising | (DJM) |
|---|-------|--|--------------|
| 2 | 5 Key | Business Priorities | (RJ) |
| | 2.1 | Building the Tram | |
| | | Update on Progress with BSC Project Director Progress Report Period 02 Change Requests & Risk Drawdown | (RJ) (SB) |

| 2.2 | Preparing for Operations | (AR) |
|-----|--------------------------|-------|
| 2.3 | Building the Brand | (MHL) |
| 2.4 | Building the Team | (RJ) |
| 2.5 | Preparing for the Future | (RJ) |

- 3 AOB
- 4 Date of next meeting 30 June 2010

Edinburgh Tram Network Minutes

STRICTLY PRIVATE AND CONFIDENTIAL

Tram Project Board

5th May 2010 (09:30 to 11.40)

tie offices - Citypoint II, Brunel Suite

| Members in Attendance: | | | |
|----------------------------------|------|--|----------------------|
| David Mackay | DJM | Bill Campbell | WWC |
| Richard Jeffrey | RJ | Donald McGougan | DMcG |
| Cllr Gordon McKenzie (part time) | GMcK | Constitutions on the little and control of constitution and the Constitution of Constitution o | 2000,400,400,400,400 |
| In Attendance: | | 2 | 972 |
| Brian Cox | BC | Andy Conway | AC |
| Steven Bell | SB | Kenneth Hogg | KH |
| Stewart McGarrity | SMcG | Cllr Phil Wheeler | PW |
| Graeme Bissett | GB | Cllr Ian Perry | IP |
| Alastair Richards | AR | Cllr Allan Jackson | AJ |
| Peter Strachan (by telephone) | PS | Ian Craig | IC |
| Marshall Poulton | MP | Mandy Haeburn-Little | MHL |
| Dave Anderson (part time) | DA | Julie Śmith (minutes) | JS |

Apologies: Neil Scales, Alasdair Sim

| 1.0 | Introduction, Review of Previous Minutes and Matters Arising | |
|-----|---|-----|
| 1.1 | DJM welcomed the participants to the meeting and noted the apologies. | |
| 1.2 | DJM asked the TPB to declare and confirm any conflicts of interest; there being none, he went on to emphasise the absolute requirement for strict adherence to commercial confidentiality, both in regard to the specific matters discussed and to papers referred to in the meeting. | |
| 1.3 | The minutes of the TPB from 10 April 2010 were taken as read and accepted as a true record. The action relating to point 5.1 (glossary of construction and contract terms) is currently a work in progress and will be presented at a future TPB by MHL. | MHL |
| 2.0 | Chief Executive's Update | |
| 2.1 | RJ gave an overview of the options given at the last board and the progress made. He stressed that the information was commercially sensitive and confidential and should not be discussed outwith the Board. If any member of the Board felt there was a need to brief an individual then this should be noted to RJ. RJ confirmed that work continued on the favoured option and that progress would be reported to the board in due course. DRP Update | |
| | 1 awaiting referral to Adjudication by BSC –Depot Access Bridge 1 awaiting referral to Adjudication by tie – Baird Drive Retaining Wall. Revised | |

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| | Estimate received on 29/04/10 and under urgent review. Section 7 Drainage and Tower Place Bridge in Adjudication and expect decision by end of May MUDFA Rev 8 in adjudication – tie to submit their response to the referral by 5 th May with a decision anticipated for the end of June. | |
|-----|--|--|
| 3.0 | Building the Tram | |
| 3.1 | SB provided progress updates for Period 01 covering the following areas: HSQE There has been 1 reportable accident during Period 1 - an incident on the Guided Busway. The rolling 13 period AFR is 0.12 well below the target of 0.24 for the project. Clancy and Farrans are still reporting Zero AFR. The frequency for Service Strikes for MUD contractors has increased from the previous period, however the 13 period rolling SFR is still decreasing and is 6.15 against a target of 10.0 strikes per 10,000hrs worked. tie has carried out a Health and Safety audit on BSC compliance with the approved Network Rail Construction Phase Plan. 4 Major findings were agreed and BSC are in the process of closing out these findings. NR concerns remain regarding BSC's works under the Siemens Principal Contractor's License. Infrastructure assets are currently being logged and recorded on an Excel database. A presentation by Siemens on their preferred Asset Management Sytem was held on 28 th April. Once the system is in place the information on Excel will be migrated across. | |
| | Code of Construction Practice Compliance has improved over period 92% to 95% for Period 1. There has been an improvement within the following areas – hours of work, notifications, notices – this is the first period that has shown 100% for the display of Tram signs and control of works near water. There has been a significant decrease in compliance in the noise related COCP requirements – this item is under review and actions to resolve have been identified. | |
| | Utilities Clancy Docwra completed the utilities diversions in the Haymarket area weekend of 1 May 2010. Planned reinstatement of traffic islands (using temporary flexible kerbing) and removal of wide area diversions are planned for weekend 8 May 2010. Tenders for Baltic Street utilities diversions underway but no decision will be taken before further debate with the Board. | |
| | Infraco - Progress The progress achieved in the period for INFRACO works was 0.3% against a plan of 3.2% and reflects the ongoing disappointing progress against plan being made by BSC for both on-street and off-street works. The Haymarket Viaduct deck pour was completed in period. Progress at the Depot Building was going well. Earthworks in the stabling area recommenced with suitable material being moved to Section 7. | |

Section 7 Earthworks/Drainage work commenced between Culvert 3 and Park

| Edi | inburgh Trams | |
|-----|--|--|
| | Lothian Buses FOISA exempt | |
| | ☐ Yes ☐ No | |
| | & Ride. Good progress was being made in fair weather conditions. | |
| | Infraco – Issues Infraco have refused to progress works on retaining walls 1A and 1C despite tie issuing Clause 22/65 letters for the sewer protection works, & the alterations & soft ground at 1A and the Sea wall at 1C. Works to complete the piling to east side of Tower Place Bridge were delayed during period 1 due to the requirement for a licence from Historic Scotland and the discovery of a service cable, both of which were successfully managed in Period 1 allowing BSC to progress the final piles. BSC have failed to commence On-Street Works and are refusing to progress works whilst Clause 80 Changes are being agreed. Commencement of On-Street Works are also being frustrated by the fact that although sites are available, BSC have failed to satisfy their contractual obligations to enable a permit to be issued. Furthermore, BSC do not accept tie's position with respect to IDC and execution of sub contractors and a lack of construction programme information from BSC causing concern with respect to management of TM, stakeholders, safety and other works. Also, BSC have declined to carry out a review of Trackform in six areas. Lastly | |
| | BSC are refusing to continue the works following Clause 22/Clause 65 letters. SB noted his disappointment and frustration at the lack of On-Street progress. | |
| 3.2 | Change Requests and Risk Drawdown In Period 01, an additional £710,868 has been drawn down leaving a risk allowance of £11.19m. These changes were; Section 6A Street Lighting (COP217 - £2,049), CEC Recharges 2010/11 (COP254 - £625,231), Additional scope Edinburgh Park Private Utilities (COP276 - £54,284) and Balancing Change (COP321 - £29,304). | |
| 4.0 | Preparing for Operations | |
| 4.1 | Tram Progress AR reported that along with the delivery of the first tram to Edinburgh as scheduled, 25 trams were now completed or in production. Trams 9, 10, 11 and 12 are in the finishing area. Tram 2 is undergoing final ride quality tests at the test track in Wildenrath. Trams 7 and 8 are currently undergoing factory acceptance testing and Tram 3, 4, 5 and 6 have completed their factory acceptance tests and are stored ready for delivery. AR noted that he will be visiting the completed Trams to ensure they were being store as required. Another success in the period is that the ICP and HMRI (ORR) no objection and letter of comfort for tram vehicle. | |
| 4.2 | Operations Preparation BROR committee held and the group visited the tram and the depot; Stage 1 post submission dialogue sessions held on the revenue collection system and Stage 2 submissions now being prepared by bidders. | |
| 5.0 | Building the Brand | |
| 5.1 | MHL noted that the Tram on Princes Street was the most visited attraction in Edinburgh with many retailers keen to work alongside us to promote the businesses. The feedback from visitors to the Tram has been 96% positive with visitors commenting on its spaciousness and modern appearance. BC seconded this noting how well it fitted into the city's landscape. | |

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| | □ No | |
|------|--|--|
| | The photography for "The People who Built the Tram" book is almost complete and the City Arts Centre has agreed to manage a photography exhibition during the first year of the Tram running. MHL also presented the proposed design options for the Tram Stop. These blend with the Lothian Buses livery and include the madder and gold "swoosh". | |
| 6.0 | Building The Team | |
| 6.1 | No updates were reported to the Board. | |
| 7.0 | Preparing for the Future | |
| 7.1 | No updates were reported to the Board. | |
| 8.0 | Governance | |
| 8.1 | GB discussed with the Board the areas to be included with the Council Report. | |
| 9.0 | AOB | |
| 9.1 | No items were raised. | |
| 10.0 | Date of Next Meeting | |
| 10.1 | DJM thanked the Board for their participation and confirmed that the date of the next meeting will be Wednesday 2nd June 2010 commencing at 09:30hrs . | |
| 10.2 | The meeting closed at 11.40. | |

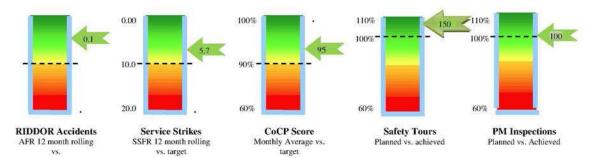
Prepared by Julie Smith, 5th May 2010

Building The Tram Project Director Report - Period 02 [10/11]

HSQE - Period 01

Deliver a Tram Safety

| IS&E ACCIDENTS and | INCIDENTS SUM | MARY | | | | | | | | | |
|--------------------|---------------|-----------|-------|--------|------------------------|-----------------------|---------|-----|-----|------|------|
| Total | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damag e | EN V | RTA | МОР | AFR | SFR |
| Period | 118,591 | 0 | 0 | 1 | 12 | 3 | 2 | 1 | 10 | 0.00 | 2.53 |
| 13 period rolling | 1,630,497 | 1 | 1 | 24 | 212 | 94 | 22 | 8 | 64 | 0.12 | 5.77 |



There have been no Reportable accidents during Period 2. The rolling 13 period AFR is 0.12 well below the target of 0.24 for the project. The frequency of service strikes for the project has improved marginally overall from the previous Period.

During Period 2 there was a potentially serious incident with BSC/Grahams at Haymarket Yards. A dumper tipped during an unloading operation. The driver voluntarily provided a D&A sample and tested positive for Cannabis. The driver was removed from site and discussions are underway with BSC regarding random testing and contractual requirements.

Further to the Period 11 BSC Rail Interface systems audit, which found 4 major findings within the BSC system, the audit has been closed out satisfactorily.

tie PM inspections continue to be carried out with the contractor. During Period 2, three of the 6 Safety Tours were carried out jointly between tie senior management and BSC senior management.

During Period 2, **tie** carried out an Environmental audit on BSC at Tower Bridge. The audit found 3 findings 1 minor, 2 observations, however, in general, the audit recorded some good standards from BSC's subcontractor, McKean.

| OISA exempt | |
|-------------|-------|
| | ☐ Yes |
| | П No |

Deliver a Safe Tram (Quality)

| | | Data Checked | | | | | | |
|------------------------|------------------------|--------------|---------|-----|---------------------------------|-----------|-------------------|--|
| Section | Activity | IDC | Hazards | F s | Design Variation / Change | As Builts | Asset Register | |
| Edinburgh Wanderers | Building Works | 0.5 | On Hold | 0.5 | - | | N/A | |
| Tower Bridge Place | ITP's & related Docs | 0.5 | On Hold | 0.5 | | | N/A | |
| | | | | - 3 | | | 1.0000000 | |
| Edinburgh Park | Road Works | 0.5 | On Hold | 1 | . 3 | | N/A | |
| Gogar Depot | Drainage | - 1 | On Hold | - 1 | . 1 | 4 | N/A | |
| PD | Total (y) | 2.5 | 0 | 3.5 | 4 | 4 | 0 | |
| | Max Possible Total (y) | 4 | 0 | 4 | 4 | 4 | 0 | |
| Total | Percentage P1 | 36% | 69% | 93% | 77% | 71% | 50% | |
| | Percentage P2 | | 69% | 93% | 79% | 74% | 50% | |

Four inspections carried out in the period, and these have highlighted significant improvements in the inspection results with IDC findings achieving a score of 63%, the first time since the inspections regime started that this element has scored over 50%. Overall assurance is slowly improving, but more work is to be done with BSC in this regard.

Code of Construction Practice

Compliance has remained constant over period at 95% for Period 1 to 2. There has been an improvement in compliance with the following areas:

- Fencing and Hoarding
- Litter and General Housekeeping

There has been a decrease / stable level of non compliance in the following areas:

- Hours of work
- Notices
- Noise
- Parking
- Dust control

A series of action plans have been identified and will be put in place to address these specific area.

Progress

The progress achieved in the Period for INFRACO works was 1.8% against a plan of 3.4%, this rate of progress is an improvement on that reported in previous periods, and reflects the level of activity underway primarily in the off-street sections. BSC are undertaking very limited on-street works in the Leith Docks area at present. This poor rate of on-street progress can substantially be attributed to the refusal of BSC to progress works whilst Clause 80 Changes are being agreed, and the fact that work cannot be started on-street where sites are available, as BSC have failed to satisfy their contractual obligations.

The total cumulative completion is **18.0%** in Period 2, against a Rev1 Contract Programme target of 86%.

The cost, programme and risk information in this Period 2 report continues to be based upon an <u>unapproved</u> forecast on the information reported in May 2009. This will be updated once agreement is reached with BSC on a new revised programme. An updated Revision 3 programme was submitted by Infraco during the Period, and this was rejected by **tie**.

tie are now in receipt of two independent experts' views and report on an attainable Rev3 programme proposals both of which indicate that Revenue Service is still achievable by late 2012, if a pro-active approach is taken by the Contractor.

Lothian Buses

| OISA exempt | |
|-------------|-------|
| | ☐ Yes |
| | П No |

Dispute Resolution

The Baird Drive dispute was resolved during the period without having to resort to formal adjudication. The Adjudicator's decision was provided on the Tower Bridge DRP. Both of these have been useful in reducing costs. In period 3 a decision is due on Section 7 drainage and the fist hearing is being held on the MUDFA Rev 8 DRP.

Design

A series of Design Audits commenced on Monday 17th May 2010. Engagement by BSC has been frustrating with 2 sessions achieving very little so far. There is still little evidence of better management of SDS by BSC, and the lack of support in supplying the Design programme strengthens the evidence of poor design performance and management. Further meetings in early Period 3 are scheduled.

Utility works

Utility Diversions are now complete at Haymarket and York Place (with the exception of final snagging and the requirement for final Scottish Water tie-ins at York Place which are dependent on completions of SW works at the Mound). Utility Diversions continue to programme at Newhaven and Leith Docks with scheduled completion during June 2010.

The procurement process commenced for Baltic street works in Period 1, tie have received 3 notes of interest, all of whom will now be invited to tender - SDS are still to complete the IFA design which is expected imminently.

Tramworks (INFRACO) Progress

- Infraco recommenced works to Retaining Walls 1A and 1C (Lindsay Road) at the end of Period 2. RW1C was excavated and the formation reviewed. Soft spots were identified, excavated and filled with sub base and plate tests are to follow. Ground at Wall 1A in location of old steps requires temporary works and BSC to action, although access was denied by Farran SPN duct installations until 20th May 2010.
- Tower place Bridge works progressing with completion of the piling works in Period 2.
- Good progress was made in Section 7 with the earthworks aided by an extended dry period.
 Progress has been achieved despite soft ground being encountered in two areas.
- General Depot programme going well with various trades working within the Depot structure.
 Externally good progress continues to be made with OHL foundation construction commencing in the period (20% completed to date).
- Depot Access Bridge piling to North abutment completed in Period 2 with the platform prepared for the South Pile.
- Temporary king posts installed at A8 Underpass which now allows the excavation to portal works to commence on the North Side.
- Edinburgh Park Bridge is now ready to receive Tram Rails which should commence w/c 24th May.
- Gogarburn Bridge is now ready to receive Tram Rails which should commence w/c 24th May.
- Guided Busway trackwork completed in the period. Other works will be undertaken at a later stage.
- The deck at Haymarket Viaduct has been poured, and works are ongoing to construct the retaining walls at for the infill section of the structure.





Lothian Buses



Tower Place Bridge Piling Works

Tower Place Bridge Piling Works





Gogar Depot External Works

Gogar Depot Control Room



Haymarket Viaduct Concrete Pour



Edinburgh Park Bridge

Issues in the Period

- BSC continue to refuse to act on tie's instructions to progress the works whilst changes are being evaluated/agreed. In certain instances, BSC say they are progressing on the basis of goodwill.
- BSC have failed to commence On Street Works. BSC do not accept tie's position with respect their failure to meet contracted obligations in regard to the permit to commence works; these being in regard to IDCs and the conclusion of sub contracts. Lack of construction programme information from BSC is causing concern with respect to management of TM, stakeholders, safety and other works.
- BSC have declined to carry out a review of Trackform in six areas.
- BSC refusing to continue the works following Clause 22/Clause 65 letters where unidentified utilities and ground conditions have been encountered and tie have instructed BSC to progress.

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| | □ Ye |
| | ПN |

Tram works (TRAMCO)

Good progress continues to be made with delivery of the trams by CAF in accordance with the tram delivery schedule. Work is progressing at various stages on the production line on 25 trams, with the first 8 trams now complete and undergoing testing.

The tram on display on Princes Street remains a strong visitor attraction with more than 31,000 visitors to date. Edinburgh Trams livery has now been applied to the tram and a very positive response has been received from those members of the public who have visited.



Cost

We continue to reflect an outturn estimate of £533.3m, including £6.2m for the cancellation of Phase 1b. However, given the commercial uncertainties with Infraco and continuing delays to the project it is now considered unlikely that the full scope of Phase 1a will be completed within the available funding envelope of £545m. Until the key issues are resolved through the contractual and legal process, it will not be possible to accurately forecast a revised budget outturn.

Key cost related items to note in Period 2 are:

- COWD to date is £362.8m, with funding to date split to TS (£332.9m) and CEC (£29.9m).
- The budget for ETP in 2010/11, established in April 2010 is £142.2m (£153.3m 09/10). Transport Scotland funding for 2010/11 is £130.5m for ETP, with £11.7m funding available from CEC. See detailed cost report (section 3.1) for an explanation of budget and reforecast differences.
- Full year forecast for 2010/11 is held at £143.0m. This forecast is being held from P13, and includes a base PM forecast of £136.9m and unallocated risk of £6.1m. See detailed cost report for a breakdown of key risks to this forecast.
- tie have not yet certified the P1 Preliminary milestone payments as BSC have not complied with the contractual obligations to allow certification (value £1.46m in the period).

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☐ Yes
☐ No

Actual YTD P2 & forecast P3-P13 FY10/11

| £m | YTD P2 | Forecast P3-P13,10/11 | Forecast FY10/11 |
|-----------------------------|-----------|--------------------------|------------------|
| Infrastructure and vehicles | 11.7 | 113.3 | 125.0 |
| Utilities diversions | 0.1 | -5.0 | -4.9 |
| Design | 0.3 | 2.0 | 2.3 |
| Land and compensation | 0.1 | 0.0 | 0.2 |
| Resources and insurance | 2.8 | 11.6 | 14.3 |
| Base costs | 15.0 | 121.9 | 136.9 |
| Risk allowance | 0.0 | 6.1 | 6.1 |
| Total Phase 1a | 15.0 | 128.0 | 143.0 |

- ETP COWD in FY10/11 for Period 2 is £15.0m against a re-aligned budget of £16.6m.
- 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 2010/11 and future years.

Risk & Opportunity

There were five risk reviews held in the period. There were thirteen drawdowns on the risk allowance approved in the period totaling £5,064,921. These are detailed later in the report. Based upon the revised project risk allowance this leaves a risk balance of £6,121,129.

The Project Risk Allowance at financial close was £30,336,196. This was increased in Period 1 by £17,982,993. Drawdowns to the end of Period 2 10/11 now total £42,198,060. The remaining risk balance based on the approved QRA plus the additional funding is £6,121,129.

Stakeholder & Communications

Incoming media enquires for Period 2 have been relatively quiet in comparison to previous reported periods. Press coverage has been mainly proactive on our part where we notified local press of the removal of our traffic management in the city centre in order to give businesses and residents in the city some respite while negotiations on the dispute continue. The launch of the Leith Business Hub at the MacDonald Road Library also generated positive coverage locally and was unveiled by local businessman Sir Tom Farmer, who himself was born and raised in Leith.

Period 2 has been a busy four weeks with regards signage and branding on the project. Promotional signage and visuals have been placed at Ocean Terminal, and the Forth Ports Ferry Terminal to coincide with the launch of 2010 Cruise season.

Logistical support for businesses affected by our tram works have been scaled back during Period 2 from 4 to 3, due to the reduction in our on-street works. Members of the team have also helped out considerably in maintaining a presence on the tram vehicle while it is situated on Princes Street.

Currently there are 4 FOI reviews outstanding and in the process of being compiled. No new requests have been filed.

Correspondence has dropped by 40 contacts since last period, totalling 298 public enquiries. The main channels for incoming enquiries to the Customer Service team continue to be via email and phone calls, with Face to face meetings with businesses and stakeholders having now dropped significantly in light of the reduction of our worksites in the centre of Edinburgh.

Period 02 2010/11 - Papers for Consideration

FOISA exempt

☐ Yes

Paper to: TPB Meeting date: 2nd June 2010

Subject: Project Change Control Update - Period 02, 2010/11

Preparer: Mark Hamill

Summary

This paper is 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 1, £37.13m had been drawn down from the project risk allowance.

In Period 02, an additional £5,064,921 has been drawn down leaving a risk allowance of £6.12m.

The table below summarises the approved changes that have impacted the Project Risk Allowance.

| Description | Base cost | Risk | Total |
|-----------------------------------|-------------|-------------|-------------|
| Position at Financial Close (PCB) | 481,680,811 | 30,336,196 | 512,017,007 |
| Increase in budget | | 17,982,993 | 530,000,000 |
| Changes to end Period 1 | 37,133,139 | -37,133,139 | |
| Position at end Period 1 | 518,813,950 | 11,186,050 | 530,000,000 |
| Period 02 Changes | 5,064,921 | -5,064,921 | |
| Position at end Period 2 (CAB) | 523,878,872 | 6,121,129 | 530,000,000 |

Changes Approved in Period 02

Section 5C - Ground Improvement Works (COP183 - £930,159)

This change is for the evacuation, disposal and replacement of soft material. These works are a Specified Exclusion under clause 3.3 (c), Schedule Part 4 of the Infraco Contract.

The scope of works within this change also includes the installation of capping layer and the installation of starter layer within Section 5C Trackworks, both of which are excluded under Pricing Assumption Number 11, Schedule Part 4.

The value for this work is provisional and will be site checked and agreed as works proceed in accordance with the 'Procedure to carry out on-site testing to determine extent of soft ground' which has been developed by **tie** and agreed with BSC.

The ongoing assessment and proposed solutions have been independently challenged and reviewed by Donaldson Associates.

Section 7 - Ground Improvement Works (COP184 - £1,139,306) See separate paper

Section 5B - Ground Improvement Works (COP193 - £1,048,154) See separate paper

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Adjustment to contingency (COP143, 234,280) (COP336 - £-81,263)

Book keeping exercise to correct previous change which had been funding from contingency that was coming from risk.

Supply of Pedestrian Marshalls (COP236 - £8,640)

tie instructed BSC to provide Pedestrian Marshalls due to the extent of disruption to pedestrians by the proposed traffic management switch at Lothian Road. This as a change as BSC were asked to provide an additional traffic management solution. This work was required as a result of a delay associated with Scottish Water Connections to Lothian Road Junction carried out under the MUDFA Contract.

Russell Road retaining wall - BDDI-IFC risk (COP244 - £1,461,857) See separate paper

Variations for Section 1A (COP264 - £338,246)

This change incorporates a number of items pertaining to the works in Section 1A. These items include a BT scope reduction which was realised and the deployment of additional resources to maintain the programme completion date following delays in gaining access to ADM Milling land. Additionally, a dedicated design resource was employed to accelerate the Technical Queries process to the benefit of the programme.

Water of Leith Sewer Lining (COP333 - £59,709)

This change was to supply and install lining to an existing sewer to allow piling works to commence on site. This is a change because the protection of the sewer is a specified exclusion under Pricing Schedule Part 4.

A8 Underpass Phase 2 Piling Obstructions (COP343 - £9,481)

Below ground obstructions were encountered during the piling operations for Phase 2 of the A8 Underpass. This is a change as dealing with below ground obstructions is a specified exclusion under Pricing Schedule Part 4.

Carrick Knowe Bridge (COP345 - £130,000)

Changes to the design were determined at adjudication to be outwith normal development and completion of the designs. This was an interim change while final agreement on the value was sought. This has now been finalised at £138,000 and this change will regularised at the next Change Panel.

White lining at Haymarket Station Car Park (COP348 - £3,843)

This is a change because it was necessary to replace the white lining in the car park following traffic management works in the area.

Newhaven Pedestrian Crossing (COP357 - £9,131)

Alterations to Newhaven Pedestrian Crossing were required to meet the expected additional footfall following the introduction of tram. This work extends beyond the boundary of the LOD. Despite construction works to an adjacent development being incomplete and therefore the developer having not fulfilled their obligations with CEC regarding this crossing, there would still be a requirement for a widening of the crossing as a consequence of tram.

Utilities Design - Crawley Tunnel Valve Arrangement (COP359 - £7,658)

This change is to fund the design of a Scottish Water mains valve at the Crawley Tunnel at The Mound. It is **tie**'s view that this work carries a factor of betterment for SW by providing

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new valves and giving the SW network more flexibility during future maintenance periods. On this basis **tie** intends to recoup a percentage of the total cost to complete the works.

The Board should note that an additional change will also be necessary to design the tie-in detail i.e. breaking into the tunnel and connecting to the existing 15' main from the new valve arrangement. A separate design change order will be prepared accordingly and presented at a future Board meeting.

Lothian Buses FOISA exempt

Decision(s) / support required

The TPB is requested to:

- 1. Note the Project Change Control status at Period 2
- 2. Note and approve the additional papers

Proposed Name: Mark Hamill Date: 2 June 2010

Title: Risk & Insurance Manager

Recommended Name: Steven Bell Date: 2 June 2010

Title: Tram Project Director

Transport Edinburgh Edinburgh Trams Lothian Buses

| FOISA exempt | |
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| | ☐ Ye |
| | DN |

Paper to: TPB Meeting date: 2nd June 2010

Subject: Risk Drawdown for Section 5A - Ground Improvement Works (COP183 -

£930,159 Preparer: Mark Hamill

This change is for the evacuation, disposal and replacement of soft material. These works are a Specified Exclusion under clause 3.3 (c), Schedule Part 4 of the Infraco Contract.

The scope of works within this change also includes the installation of capping layer and the installation of starter layer within Section 5C Trackworks, both of which are excluded under Pricing Assumption Number 11, Schedule Part 4.

The value for this work is provisional and will be site checked and agreed as works proceed in accordance with the 'Procedure to carry out on-site testing to determine extent of soft ground' which has been developed by **tie** and agreed with BSC.

The ongoing assessment and proposed solutions have been independently challenged and reviewed by Donaldson Associates.

Decision(s) / support required

The TPB is requested to formally approve the drawdown from risk of £930,159

Proposed Name: Mark Hamill Date: 2 June 2010

Title: Risk & Insurance Manager

Recommended Name: Steven Bell Date: 2 June 2010

Title: Tram Project Director

Approved Date:

Lothian Buses

FOISA exempt

☐ Yes

Meeting date: 2nd June 2010 Paper to: TPB

Subject: Risk Drawdown for Section 7 - Ground Improvement Works (COP184 -

£1,139,306 Preparer: Mark Hamill

This change is for the evacuation, disposal and replacement of soft material. These works are a Specified Exclusion under clause 3.3 (c), Schedule Part 4 of the Infraco Contract.

The scope of works within this change also includes the installation of capping layer and the installation of starter layer within Section 7A Trackworks, both of which are excluded under Pricing Assumption Number 11, Schedule Part 4.

The value for this work is provisional and will be site checked and agreed as works proceed in accordance with the 'Procedure to carry out on-site testing to determine extent of soft ground' which has been developed by tie and agreed with BSC.

The ongoing assessment and proposed solutions have been independently challenged and reviewed by Donaldson Associates.

Decision(s) / support required

The TPB is requested to formally approve the drawdown from risk of £1,139,306.

Proposed Name: Mark Hamill Date: 2 June 2010

Title: Risk & Insurance Manager

Name: Steven Bell Date: 2 June 2010 Recommended

Title: Tram Project Director

Approved Date:

Lothian Buses

FOISA exempt

☐ Yes

Paper to: TPB Meeting date: 2nd June 2010 Subject: Risk Drawdown for Section 5B - Ground Improvement Works (COP193 -

£1,048,154 Preparer: Mark Hamill

This change is for the evacuation, disposal and replacement of soft material. These works are a Specified Exclusion under clause 3.3 (c), Schedule Part 4 of the Infraco Contract.

The scope of works within this change also includes the installation of capping layer, the installation of starter layer and the installation of a drainage layer within Section 5B Trackworks, both of which are excluded under Pricing Assumption Number 11, Schedule Part 4.

The value for this work is provisional and will be site checked and agreed as works proceed in accordance with the 'Procedure to carry out on-site testing to determine extent of soft ground' which has been developed by **tie** and agreed with BSC.

The ongoing assessment and proposed solutions have been independently challenged and reviewed by Donaldson Associates.

Decision(s) / support required

The TPB is requested to formally approve the drawdown from risk of £1,048,154

Proposed Name: Mark Hamill Date: 2 June 2010

Title: Risk & Insurance Manager

Recommended Name: Steven Bell Date: 2 June 2010

Title: Tram Project Director

Approved Date:

Lothian Buses

FOISA exempt

☐ Yes

Paper to: TPB Meeting date: 2nd June 2010

Subject: Russell Road Retaining Wall (COP244 - £1,461,857)

Preparer: Mark Hamill

This change regularises the decision at adjudication to cover the civil engineering changes brought about by ground conditions.

Following additional ground investigations there was a change from an 'L' shaped gravity structure as depicted on the BDDI drawings to a cantilever wall on piles and changes to the size and number of piles on IFC drawings..

Decision(s) / support required

The TPB is requested to formally approve the drawdown from risk of £1,461,857

Proposed Name: Mark Hamill Date: 2 June 2010

Title: Risk & Insurance Manager

Recommended Name: Steven Bell Date: 2 June 2010

Title: Tram Project Director

Approved Date:

FOISA exempt

Transport Edinburgh
Edinburgh Trams
Lothian Buses

Primary risk register

| | Risi | k Description | 1011 - 6 | Period 02 P | Primary Risk I | Register | | | | | |
|-------------|--|---|--|-------------|----------------|------------|--|--------------------|-------------------|-------------|-----------------|
| ARM Risk ID | | Event | Effect | Risk Owne | r Significance | Black Flag | Treatment Strategy | Previous Status | Current Status | Due Date | Action Owner |
| 343 | General delay to programme with various causes e.g. failure to obtain approvals on time; contractor issues, access after completion of utility diversions | Delay to completion of project | Increased out-furn cost due to delay plus revenue loss | S Bell | Hartson | | Contractually assertive workstreams to progress programme | On Programme | On Programme | 30-May-10 | S Bell |
| | somponer or all of a constant | | | | | | Clause 34 / 80.015 | On Programme | On Programme | 31-Aug-10 | S Bell |
| | | | | | | | DRP Mudfa Rev 8 response | On Programme | On Programme | 31-Aug-10 | S Bell |
| | | | | | | | Enhanced management focus on various workstreams and options relating to progress of the project | On Programme | On Programme | 31-May-10 | R Jeffrey |
| | | | | | | | Access Maps showing areas available | On Programme | On Programme | 30-Nov-10 | F McFadden |
| | | | | | | | Liason between tie/BSC programme managers | On Programme | On Programme | 30-Dec-11 | T Hickman |
| | | | | | | | Programme Management Panel process | On Programme | On Programme | 30-Dec-11 | F McFadden |
| | | | | | | | Weekly tie/BSC commercial meetings | On Programme | On Programme | 30-Dec-11 | M Paterson |
| 1077 | Base Date Design Information to Issued For Constructions (BDDI-IFC). Lack of visibility of | If which may have been altered. Unclear | Additional cost and programme ridelay | S Bell | Hair 25 00 | | Continued DRP / Adjudication Process | On Programme | On Programme | 31-Jul-10 | S Bell |
| | design changes between November 2007 and May 2008 | who authorised design change. | | | | | Contract interpretation and technical expert witness work | On Programme | On Programme | 31-Jul-10 | S Clark |
| | | | | | | | Enhanced management focus on various workstreams and options relating to progress of the project | On Programme | On Programme | 31-May-10 | R Jeffrey |
| | | | | | | | 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.) | Complete | Complete | 14-Aug-09 | S Bell |
| | | | | | | | PA1 Challenge | On Programme | On Programme | 31-Aug-10 | S Bell |
| | | | | | | | Of the issues previously highlighted as going through DRP, I has been ruled in favour of tie, 2 have been agreed, 2 have been ruled in SSC's tavour and this is being reviewed by tie. Further issues are due to enter DRP in December 09 and January 10. | Complete | Complete | 31-Jan-10 | S Bell |
| | | | | | | | Resolution Strategy approved - 1st DRP to go 10th August, audit requests to BSC for information going w/c 3.8.09 | Complete | Complete | 10-Aug-09 | S Bell |
| | | | | | | | Deploy alternative utilities confractors to progress utilities | On Programme | On Programme | 30-Nov-10 | F McFadden |
| | | | | | | | Siemens 33 initiative to achieve Airport to Bankhead Drive | On Programme | On Programme | 30-Jun-10 | F McFadden |
| 1091 | | Excavation of soft, unsuitable material below Earthworks outline | Additional cost and programme delay | F McFadder | inun (2011) | | Donaldsons to carry out surveys | Complete | Complete | 30-Jul-09 | C Neil |
| | | | | | | | Enhanced management focus on various Extent of soft ground being investigated. External specialist advice deployed. | On Programme | On Programme | 31-May-10 | M Paterson |
| | | | | | | | Interative testing approach in order to maximise value | On Programme | On Programme | 31-Jul-10 | C Neil |
| | | | | | | | Technical challenge against Donaldsons designs | On Programme | On Programme | 31-Jul-10 | C Neil |

| | | 1011 - Pe | eriod 02 Primary Risk Register | | | | | |
|--------|---|--|--------------------------------|--|--------------|--------------|-----------|------------|
| | Risk Description | | | | | | | |
| 101 | Unreasonable behaviour of BSC commercial Unrealistic estimates being submitted management for potential changes | Programme delay white disputes regarding estimates are resolved | F McFadden | Agreed with BSC for independant evalutation to get benchmark | Complete | Complete | 30-Jul-09 | M Paterson |
| | | | | All estimates to be scrutinised by tie commercial team and, where appropriate, challenge made to BSC. Actilitized resource (T&T) being used to check estimates to rectuce delay and other commercial resources on there areas. | On Programme | On Programme | 30-Dec-10 | D Murray |
| | | | | Enhanced management focus on various workstreams and options relating to progress of the project | On Programme | On Programme | 31-May-10 | D MacKay |
| | | | | Legal challenge to Clause 80 and BSCs interpretation thereof | On Programme | On Programme | 31-Jul-10 | S Bell |
| | | | | Clause 34/80 issues using DRP for disputed values | On Programme | On Programme | 31-Aug-10 | S Bell |
| 1094 | Roads throughout works require full depth reconstruction | Programme impact plus additional costs. £1.5m cap | F McFadden Nijit SEE 1027 | Carry out surveys to confirm extent of roads requiring full depth reconstruction | | SV 5 | 400 40 | **** |
| | 96-0-000-000-0-0-0-0-0-1 | applies to only 4 areas. (PA 12) Also affects (PA 14) | | Intensive engagement with CEC, pallette of options, methodology being agreed | On Programme | On Programme | 31-Jul-10 | C Neil |
| | | | | Suite of options from surveys to be reviewed and agreement reached | On Programme | On Programme | 1-Jul-10 | C Neil |
| | | | | tie developed on-street proposal | On Programme | On Programme | 31-Aug-10 | M Paterson |
| 52 | Political and/or Stakeholder objectives change. Amendments to design scope from | Programme delay as a result of | D Sharp | Change panel process to apply scrutiny to | On Programme | On Programme | 227 | 1111 |
| V781 I | or require design developments that constitute current baseline and functional a change of scope; Planning Department specification, requires scope over and above baseline scope in order to give approval (may be as a result | re-work; Programme delay due late receipt of change requirements and lack of resolution; Scope/cost creep | | Close working relationship with CEC and stakeholders | On Programme | On Programme | 31-Jan-11 | D Sharp |
| | of lack of agreement over interpretation of planning legal requirements). | (dealt with through change process); Project ultimately could become unaffordable. | | Design task force | On Programme | On Programme | 31-Aug-10 | S Bell |

| | | | 1011 - Peri | od 02 Primary Risk Register | | | | | |
|------|--|---|--|-----------------------------|--|--------------|--------------|------------------------|----------------------|
| | Risk | Description | | | | | | | |
| 928 | Major single safety incident (including a dangerous occurrence) during construction | Salety incident during construction | Delay (potentially critical) due to FI HSE investigation and rework. PR risk to lie and stakeholders. | McFadden Hujf St 20 | All Site Staff to get CSCS or equivalent | On Programme | On Programme | 30-Jan-11 | B Cummir |
| | | | | - | HSQE Audits, site inspections and Management Salety Tours to be carried out | On Programme | On Programme | 31-Dec-10 31-Dec-10 | B Cummir B Cummir |
| | | | | | Incident management process regularly updated and revisited | On Programme | On Programme | 31-Dec-12 | B Cummir |
| | | | | | Site Supervisors to be appointed by tie | | | | |
| | | | | | TEL HSE committee overview appliced | On Programme | On Programme | 31-Dec-10 | B Cummin |
| | | | | | The tie 'Salety' bus is being used to deliver salety talks & culture surveys to the contractors workforce. | Complete | Complete | 31-Dec-09 | B Cummine |
| 931 | Utilities assets uncovered during construction that were not proviously accounted for; unidentified abmolored utilities assets; known redudant utilities; unknown five utilities; unknown redundant utilities. | Unknown or abandoned assets impacts scope of Intrace work | Re-design and detay as C investigation takes place and solution implemented; Increase in Capex cost as a result of additional works. | Neif | Obstructions and voice survey, establish ownership reduced delay on discovery. | On Programme | On Programme | | |
| | | | | | Conflicts Register | On Programme | On Programme | 31-Aug-10 | G Neil |
| 977 | Legal challenge. Extension of statutory consultation process. Large number of objections. TRO process is subject to a public hearing process. | Delay in achievement of TRO(s) due to a large number of public objections and/or a legal challenge to using a TTRO to construct infraco. | Requirement to start construction D using TTROs | Fraser Right at III | Comms strategy to include provision of process and crawings on website for public viewing | Complete | Complete | 30-Sep-09 | S Clark |
| | | | | | Public deposit commenced 22nd Feb and the formal public consideration phase is underway and will be concluded on 22nd march at which point objections will be dealt with in the form of a formal report to the council for consideration. | On Programme | On Programme | 30-Jun-10 | A Sim |
| | | | | | Use of TTRO's to undertake construction of permanent works in advance of permanent TROs being approved | On Programme | On Programme | 30-Jan-11 | A Sim |
| 1104 | Design changes following utility diversions | Utilities affected by subsequent kerb realignments (primarily westside of Leith Walk) | Re-diverting of utilities with additional cost and programme delay | Neil Her Store | Following identification of conflicts potential solution such as protection measures to be identified. | On Programme | On Programme | 1-Jun-10 | C Neil |
| | | | | | Utility conflicts being identified | On Programme | On Programme | 1-Jun-10 | G Neil |
| | | | | | Timetable for Utility conflicts resolution | On Programme | On Programme | 31-Aug-10 | C Neil |

Period 02 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).

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2 Progress

2.1. Overall

The cost, programme and risk information in this Period 02 report continues to be based upon an <u>unapproved</u> forecast on the information reported in May 2009. This will be updated once agreement is reached with BSC on a new revised programme. The outputs of Rev3 were issued by BSC during Period 2, and supported by independent reviews, **tie** have formally rejected the submissions.

tie are now in receipt of two independent experts' views and report on an attainable Rev3 programme proposals both of which indicate that Revenue Service is still achievable by late 2012, if a pro-active approach is taken by the Contractor.

Overall the relationship with BSC is suffering in the following key areas:

- The refusal of BSC to progress works whilst Clause 80 Changes are being agreed;
- Work unable to start on-street where sites are available as contractual obligations are not satisfied:
- Resolution of the contractual interpretation on BDDI-IFC (pricing assumption 1), and
- Refusal by BSC to progress works under tie instruction in relation to Clauses 80/34/22/65

Linked to all of the above is the provision of a programme to completion capable of acceptance.

Progress remains behind the master programme, primarily due to:

- Finalisation of the agreement of change delaying the commencement of work even though instructed to progress by tie;
- Diminishing incomplete utility diversions in the On-Street sections caused in part by traffic management constraints:
- Contractual obligations not met to allow works to commence on street;
- Slow mobilisation of INFRACO, including lack of formal sub-contracts being in place;
- Failure of INFRACO to submit preparatory paperwork in a timely manner and of a suitable content 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 v56 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 in early March 2013. This has suffered -21 days of slippage since period 01 as the delay to the on-street sections are impacting the Critical path.

There has been no further commencement of Infraco works on-street other than those already progressed with works restarting at Lindsay Road RW's and continuing at Tower Place bridge, due to a lack of agreement on programme going forward, suitable sub contractor arrangements implements and completion of final design assurance checks by BSC.

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| Section | Description | Contract Programme Rev.00 | BSC Forecast (P02) Rev.01 | BSC Movement in Period (Cal Days) | tie Live Forecast (P02) Rev.01** | tie Movement in Period (Cal Days) |
|---------------|--|---------------------------------|------------------------------------|--|---|--|
| Section A | Depot completion | 25-Mar10 | 17-Aug-11 | -9 | 27-May-11 | 26 |
| Section B* | Test Track Available | 23-Apr-10 | 06-Apr-12 | -14 | 26-Mar-12 | -21 |
| Section C | All Phase 1a Construction complete | 17-Jan-11 | 29-Nov-12 | -14 | 04-Sep-12 | -21 |
| Section D | Open for Revenue Service | 16-Jul-11 | 28-May- 13 | -14 | 03-Mar-13 | -21 |

^{*}The interpretation is that Sectional Completion "B" means that Test Track is available for Tram movements.

2.2. Dispute Resolution

<u>Dispute Resolution (Infraco)</u>
The Baird Drive dispute was resolved during the period without having to resort to formal adjudication. The Adjudicator's decision was provided on the Tower Bridge DRP. Both of these have been useful in reducing costs. In period 3 a decision is due on Section 7 drainage and the first hearing is being held on the MUDFA Rev 8 DRP. A summary on the DRP process at the end of Period 02 and outcomes is presented below:

| DRP No | Subject | Nature of Dispute | Launched or planned | PD Mtg | Position Papers | CEO Meeting | Referral | Decision |
|-----------|---------------------------|----------------------|---------------------|-----------|-----------------|----------------|----------|--|
| 5a | Gogarburn | BDDI to IFC | 1 | 1 | 1 | 1 | 1 | Decision made |
| 5b | Carrick Knowe | BDDI to IFC | 1 | 1 | 1 | 1 | 1 | - complete |
| 5c(B) | Russell Road | BDDI to IFC | 1 | 1 | 1 | 1 | 1 | Decision made - complete |
| A | MUDFA Rev 8 | Programme | 1 | 1 | ٨ | V | ٨ | Adjudication in Progress – 1 st hearing held and an interim decision due on 1 st June |
| 5e | Tower Bridge | BDDI to IFC | 1 | 1 | 1 | 1 | V | Decision made and under review |
| 51 | Section 7 Drainage | BDDI to IFC | 1 | 1 | 1 | 1 | 1 | Decision due 25 th May |
| 5i | Baird Drive | BDDI to IFC | 1 | 1 | 1 | - V | | Agreement reached on Estimate without having to get to formal adjudication |
| 5j | Balgreen Road | BDDI to IFC | 4 | 1 | 1 | V | | Agreement reached on Estimate without having to get to formal adjudication |
| 50 | Depot Access Bridge | BDDI to IFC | 7 | 1 | — | 1 | | Still awaiting referral to adjudication by BSC |

Launched by tie Launched by BSC

^{**} V56 information used.

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A strategic review of commercial and contractual options is underway and is reported to the Tram Project Board each period.

The contract with the BSC consortium prescribes a timetable for resolution of contractual disputes and it is expected that the budget and programme implications will become increasingly clear during 2010.

Regular briefings will be provided to both CEC and Transport Scotland to keep them updated on progress and implications for the project programme and finances of all the above matters.

Commercial Update (MUDFA)

Further meetings with Carillion's MD have taken place as well as their new Financial Director and Carillion have indicated that they would like to agree the final account without referral to a third party. However, as yet, they have not amended their stance on monetary entitlement in respect of the major items of difference namely Enabling Works and Disruption Claim.

Changes – Further progress has been made in the period in respect of agreeing the value of changes and agreement will be reached in the period of all Changes where there is no dispute as to entitlement. It is still anticipated that entitlement issues will require senior management discussions with Carillion to conclude.

Re-measurement of Works – Carillion have now submitted revised drawings for work carried out. These are currently being checked and valued, however Carillion have also indicated that further revisions are to be submitted to **tie**. Re-measurement of Work Sections previously concluded will now require revaluation and discussion. At present the receipt of drawings from Carillion is driving the completion of agreement however it is hoped that conclusion of this element of the account can be reached within the next period.

Enabling Works – tie have held several meetings with Carillion demonstrating the inadequacy of Carillion's submission in respect of enabling works. Following issue of a report on the matter Carillion have now agreed to review their position and provide the information required by tie or forward a proposal on how to resolve the matter.

Disruption Claim – Further to discussions Carillion have indicated that they will resubmit their disruption claim taking into account comments made by **tie** on their original submission. However to date this resubmission has not been forth coming.

2.3. Design

IFC Design

This report utilises information contained in SDS v56 Design Programme received on 22Apr10 and progressed to 15Mar10. The SDS v57 Design Programme has now been received and is progressed to 12Apr10. This was received too late for inclusion in this period report although specific comparison reports will be issued as required. Concerns remain regarding BSC's management of SDS, this demonstrated by the late receipt of the updated v56 updated programme which has limited tie's ability to provide a comprehensive report on the impacts/implications of this programme. Formal written communication on this ongoing matter has been submitted to BSC.

v56 data has been used to inform the programme updates. **tie** are now in the process of including these into the live programme.

- IFCs Phase 1a: 155 issued out of 233
- 56 Prior Approvals are included in v56 (reduction in PAA count due to removal of Murrayfield TS RW and 1a3 roads from the SDS programme) – 53 of which have been submitted, and 52 granted – these include the RBS Gogarburn Tramstop,

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Modifications to Murrayfield TS retaining Wall, Gogar Interchange, Canopy & Boundary Treatment at Airport Kiosk, Final Tram Stop location drawings and OLE pole locations.

- There was a reduction in the number of Technical Approvals from V51a (due to a decrease in the number of activities in the SDS v55 programme (4 remaining to be submitted 16 left to be granted in v56);
- Roads approvals One area remains outstanding for Technical Approval in Phase 1a (1C2- Picardy Place to St Andrew Square);
- Scottish Water has sent formal acceptances to BSC for all sections with the exception
 of 1C2 (Picardy Place to St Andrew Square) & 1C1 (McDonald Rd to Picardy Place).
- Sections 1B, 1D, 1C3, 5B & 5C 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.

Design approvals status in Period 02 is summarised below:

| Phase 1a only | Number | Number Required | | | Number | |
|------------------------|--------|-----------------|-----|------|-----------|---------|
| | V26 | v31 | V55 | V56* | Submitted | Granted |
| Prior Approvals | 44 | 49 | 56 | 56 | 53 | 52 |
| Technical Approvals | 53 | 71 | 91 | 92 | 88 | 76 |
| IFC | 71 | 81 | 231 | 233 | | 155 |

^{*} Any alterations to the Approvals from V56 have been included in the above count and the changes are now being included in the live report.

A series of Design Audits commenced on Monday 17th May 2010. Engagement by BSC has been frustrating with 2 sessions achieving very little so far. There is still little evidence of better management of SDS by BSC, and the lack of support in supplying the Design programme strengthens the evidence of poor design performance and management. Further meetings in early Period 3 are scheduled.

Reasons for design slippage are being reviewed and recorded twice monthly at the design taskforce meeting, which is focused on resolving the outstanding design issues. **tie** is identifying and implementing opportunities to mitigate the impacts of this slippage. 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.

2.4. Utility works

Utility Diversions are now complete at Haymarket and York Place (with the exception of final snagging and the requirement for final Scottish Water tie-ins at York Place which are dependent on completions of SW works at the Mound). Utility Diversions continue to programme at Newhaven and Leith Docks with scheduled completion during June 2010.

The procurement process commenced for Baltic street works in Period 1, **tie** have received 3 notes of interest, all of whom will now be invited to tender - SDS are still to complete the IFA design which is expected imminently.

Utility works in Picardy Place are pending, with **tie** in the process of developing a programme for completion. The required remedial and snagging works in Leith Walk are compounding the delay caused to Infraco on the Northbound side, with the Southbound side currently available, however BT are continuing with telecoms re-cabling activities, although the forecast completion has slipped considerably during the period, from July to September 2010. This is

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due to BT identifying an additional fibre optic cable to be connected & staff safety problems working overnight in parts of the city.

The delay of telecoms cabling work in St Andrew Square will impact upon the commencement of Tram works which were programmed to start in Jun 2010. Detailed programme reviews continue, and weekly Traffic Management Interface meetings are in place & tie are meeting with BT regularly to try to identify opportunities to hand over part sections of the route to BSC for Infraco works, the review of which continues.

Progress in Period 2:

- Clancy Docwra completed the utilities diversions (excluding snagging works) in Haymarket & York Place - Annandale Street in Period 2.
- BT cabling works on Lindsay Road were completed in Period 2 (excluding duct works linked to ongoing works on the Old Port Road)
- Clancy Dowry completed the private utility diversion works in Edinburgh Park area in Period 2.
- Farrans utilities diversions in Section 1A continue, with completion in sites 1 & 3 anticipated in Period. Telecoms cabling work will follow on from this.
- The recovery of the 33kV cables at Edinburgh Park has now been completed and final reinstatement of footpaths and verge completed on 17th May 10

2.5. Tramworks (INFRACO)

The progress achieved in the Period for INFRACO works was 1.8% against a plan of 3.4% this rate of progress is an improvement on that reported in previous periods, and reflects the level of activity underway, primarily in the off-street sections. BSC are undertaking very limited on-street works in the Leith Docks area at present. The total cumulative completion is 18.0% in Period 2.

ON-STREET

| Item | Period 01 % Comp | Period 02 % Comp |
|--|---------------------|---------------------|
| Lindsay Rd RW's | 2.0% | 2.0% |
| S17 Tower Place bridge | 0.3% | 4.2% |
| 1B Leith Walk (Foot of the Walk - McDonald Rd) | 1.3% | 1.3% |
| 1D Princes Street to Haymarket | 42.1% | 42.1% |

Progress in Period 2

- Infraco recommenced works to Retaining Walls 1A and 1C (Lindsay Road) at the end of Period 2. RW1C was excavated and the formation reviewed. Soft spots were identified, excavated and filled with sub base and plate tests are to follow. Ground at Wall 1A in location of old steps requires temporary works and BSC to action, although access was denied by Farran SPN duct installations until 20th May 2010.
- Tower place Bridge works progressing with completion of the piling works in Period 2.

OFF-STREET

Progress Off-street has continued or commenced at the following locations: Note that the (%) completion estimates relate to the full structure.

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| ltem | Period 01 % Comp | Period 02 % Comp |
|--|------------------------|---------------------|
| S19 Haymarket viaduct | 51.9% | 58.4% |
| Trackwork Haymarket to Roseburn junction | 0.6% | 0.6% |
| Russell Road Retaining Walls | 19.4% | 19.4% |
| Murrayfield Wanderers Clubhouse Accomodation Mods | 80.0% | 80.0% |
| S23 Carricknowe bridge | 47.8% | 55.0% |
| Trackwork Balgreen to Saughton | 27.6% | 27.6% |
| Trackwork Saughton to Bankhead (Guided Busway) | 66.3% | 72.4% |
| Trackwork Bankhead to Edinburgh Park Station | 43.5% | 43.5% |
| Trackwork Edinburgh Park Stn to Edinburgh Park Central | 9.5% | 9.5% |
| S27 Edinburgh Park viaduct | 91.2% | 92.4% |
| Trackwork Edinburgh Park Central to Gyle Centre | 10.2% | 10.2% |
| A8 underpass (Excluding utilities works) | 10.5% | 10.5% |
| S32 Depot Access bridge | 1.7% | 5.0% |
| Trackwork Depot Stop to Gogarburn | 7.4% | 7.4% |
| Depot Earthworks | 78.8% | 96.0% |
| Depot building. | 23.9% | 35.8% |
| Depot Sub-station | 0.0% | 3.0% |
| Depot Access Roads | 11.0% | 33.0% |
| Depot in totality | 24.6% | 36.8% |
| Gogarburn Bridge | 90.0% | 98.5% |
| W14A (Only) Gogarburn RW | 90.0% | 90.0% |
| Trackwork Ingliston Park & Ride to Edinburgh Airport | 4.1% | 8.3% |

Progress in Period 2

- Good progress was made on Section 7 earthworks aided by an extended dry period.
 Progress has been achieved despite soft ground being encountered in two areas.
- General Depot programme going well with various trades working within the Depot structure. Externally good progress continues to be made with OHL foundation construction commencing in the period (20% completed to date).
- Depot Access Bridge piling to North abutment completed in Period 2 with the platform prepared for the South Pile.
- Temporary king posts installed at A8 Underpass which now allows the excavation to portal works to commence on the North Side.
- Edinburgh Park Bridge is now ready to receive Tram Rails which should commence w/c 24th May.
- Gogarburn Bridge is now ready to receive Tram Rails which should commence w/c 24th May.
- Guided Busway trackwork completed in the period. Other works will be undertaken at a later stage.
- The deck at Haymarket Viaduct has been poured, and works are ongoing to construct the retaining walls at for the infill section of the structure.

Issues in the Period

- BSC continue to refuse to act on tie's instructions to progress the works whilst changes are being evaluated/agreed. In certain instances, BSC say they are progressing on the basis of goodwill.
- BSC have failed to commence On Street Works. BSC do not accept tie's position with respect their failure to meet contracted obligations in regard to the permit to commence works; these being in regard to IDCs and the conclusion of sub contracts. Lack of construction programme information from BSC is causing concern with respect to management of TM, stakeholders, safety and other works.
- BSC have declined to carry out a review of Trackform in six areas.

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 BSC refusing to continue the works following Clause 22/Clause 65 letters where unidentified utilities and ground conditions have been encountered and tie have instructed BSC to progress.

Progress is 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 02 | | Cumulative (Short-Term) | | Contract | |
|--------------|-----------|--------|-------------------------|--------|----------------|--|
| | Planned | Actual | Planned | Actual | Planned to P02 | |
| Prelims | 2 | 0 | 71 | 69 | 71 | |
| Construction | 9 | 12 | 130 | 135 | 962 | |

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 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.

| Period 02 2010-11 | P | eriod | Delta | Cumu | lative | Delta |
|---|------|--------|-------|--------|--------|--------|
| INFRACO PERIOD 02 PROGRESS (Contract Rev.01 Programme) | Plan | Actual | | Plan | Actual | |
| Section 1a Newhaven to Foot of the Walk | 4.7% | 0.3% | -4.3% | 69.7% | 0.5% | -69.3% |
| Section 1b Foot of the Walk to McDonald Road | 7.6% | 0.0% | -7.6% | 73.0% | 1.3% | -71.7% |
| Section 1c McDonald Road to Princes Street West | 6.4% | 0.0% | -6.4% | 63.1% | 0.0% | -63.1% |
| Section 1d Princes Street West to Haymarket | 2.6% | 0.0% | -2.6% | 99.8% | 42.1% | -57.7% |
| Combined Sections 1A-1B-1C-1D (On-Street) Newhaven Road to Haymarket | 5.3% | 0.1% | -5.1% | 74.1% | 8.1% | -66.0% |
| Section 2 Haymarket to Roseburn Junction | 0.0% | 2.7% | 2.7% | 100.0% | 25.4% | -74.6% |
| Section 5a Roseburn Junction to Balgreen Road | 3.1% | 0.0% | -3.1% | 83.0% | 5.9% | -77.1% |
| Section 5b Balgreen Road to Edinburgh Park Central | 1.8% | 1.4% | -0.5% | 100.0% | 40.2% | -59.8% |
| Section 5c Edinburgh Park Central to Gogarburn | 2.8% | 0.3% | -2.5% | 92.6% | 6.5% | -86.1% |
| Section 6 Gogar Depot | 0.0% | 12.2% | 12.2% | 100.0% | 36.8% | -63.2% |
| Section 7a Gogarburn to Edinburgh Airport | 4.6% | 0.1% | -4.5% | 96.9% | 33.1% | -63.8% |
| Combined Sections 2A-5A-5B-5C-6A-7A (Off-Street) Haymarket to Edinburgh Airport | 2.1% | 3.1% | 1.0% | 94.6% | 25.1% | -69.5% |
| FULL ROUTE PHASE 1A NEWHAVEN ROAD TO EDINBURGH AIRPORT | 3.4% | 1.8% | -1.6% | 86.0% | 18.0% | -68.0% |

| Section | Commentary |
|---|---|
| Section 1a Newhaven to Foot of the Walk | Tower Bridge piling works completed and works progressing. |
| Section 1b Foot of the Walk to McDonald Road | No Infraco works have started on this section |
| Section 1c McDonald Road to Princes Street West | No Infraco works have progressed on this section |
| Section 1d Princes Street West to Haymarket | No Infraco works have progressed on this section |
| Section 2 Haymarket to Roseburn Junction | Haymarket Viaduct Work on the east abutment walls and access stair walls continued during the period. Work to the tramstop retaining walls recommenced during the period. BSC/Grahams still waiting for SDS to complete the redesign of the internal retaining wall. Haymarket Yards BSC currently preparing an Estimate for the soft ground Change. Track drainage works now started final week in this |

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| Section | Commentary |
|---|---|
| | period. |
| | |
| 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. Russell Road Bridge No works carried out during the period. Temporary works design for the soil nails now due to be submitted week ending 21 May 2010. BSC still progress agreement of the 24" gas main protection methodology with SGN. Actual works now likely to start September 2010. Russell Road Retaining Wall W4 No piling work carried out during the period. BSC [Expanded] commenced installation of shear connectors to the pile caps on units 10 and 11 during the period. No pile cap constructed to date due to the continuing outstanding issue with the pile cap reinforcement — BSC/SDS to resolve this issue. Murrayfield Wanderers Clubhouse Accommodation works — works commenced w/c 05/01/10 and continued during the period |
| Section 5b Balgreen Road to Edinburgh Park Central | Temporary & permanent works re-design along with commercial resolution delaying various structures. Carrick Knowe Bridge Constructed of the wingwalls continued during the period. Installation of the deck slab reinforcement and construction of the bridge diaphragms delayed during the period due to an issue with the deck slab levels. Work on the deck slab resumed 17 May 2010. Construction of the north approach ramp commenced during the period. Guided Busway Track work completed during the period. Bankhead Drive No works by BSC during the period. Edinburgh Park Busgate Works are progressing to the road and footpath formation. Progress has been significantly affected by the number of unforeseen utility conflicts affecting various elements of the works and these have now all been instructed to Infraco. The instruction for the design of the MP PE gas main diversion has been issued to SDS however the SDS Change Estimate has not yet been submitted to Infraco. Edinburgh Park Bridge Construction of the north approach ramp continued during the period. Construction of the south approach ramp continued during the period. |
| Section 5c Edinburgh Park Central to Gogarburn Section 6 Gogar Depot | A8 Underpass Phase 1: Kingpost arrangement installed and excavation underway for bridge deck and portal works. Phase 2: BT support system completed with kingpost system installed to south side of phase 2. Phase 4: All cables slewed by 23rd April 2010. Piling platform completed 14 th May 2010. Sewer grouting CCTV works completed. Date for grouting sewer to be confirmed following final walk through survey. Depot Access Bridge Piling works to north abutment and central pier completed 20 th April 2010. Piles trimmed and east and west wing wall reinforcement completed. South Abutment: Excavation for kingpost installation commenced 14 th May 2010. Depot Building works: |
| Section o Gogar Depot | Accommodation area 1 st Fix M&E completed with blockwork and partition walls progressing well. Workshop area road 1 and 3 maintenance pits completed. General Building works wall cladding 85% completed. External works: Excavation for stabling area completed 23 rd April 2010. Drainage works 75% complete. OLE foundations commenced 5 th May 2010 and 20% complete by period end. |

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| Section | Commentary |
|---|---|
| Section 7a Gogarburn to Edinburgh Airport | Gogarburn Bridge: Bridge available for Siemens track laying squads by period end. EAL Construction Phase A; Retaining wall W14 and W15 commenced 15 th February 2010. Works progressing well with structures substantially completed by period end. Soft ground remediation commenced from Culvert 3 south on 12 th April 2010. Soft ground remediation in Embankment areas from Gogarburn Bridge to Eastfield Avenue completed by period end. Culverts 1,2and 3 have been completed. Hilton Hotel Car Park; Phase 1 Works completed. |

Tram construction (Tramco)

Good progress continues to be made with delivery of the trams by CAF in accordance with the tram delivery schedule. Work is progressing at various stages on the production line on 25 trams, with the first 8 trams now complete and undergoing testing.

The tram on display on Princes Street remains a strong visitor attraction with more than 31,000 visitors to date. Edinburgh Trams livery has now been applied to the tram and a very positive response has been received from those members of the public who have visited.

Draft Operations and Maintenance manuals have been received and are being reviewed.

2.6. Preparing for Operations

tie are working on a joint initiative with TEL and are focussed on getting ready for the Testing & Commissioning phases as well as the operational introduction of trams. As part of the process, the Benefits Realisation & Operational Readiness was formed and is reporting to the TPB, and an integrated programme has been developed.

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 BROR committee continues to provide the governance for these activities, which has seen good progress in the planning and undertaking of the relevant activities, and the OJEU procurement launched for the ticketing equipment for the tram system, to link it with the existing Lothian Buses ticketing system. Significant effort is being made on programming and planning the preparing for operations activities, including recruitment and training of both operations and maintenance staff. The maintenance of completed infrastructure assets is being worked on with the BSC maintenance representatives.

Planning for commissioning of the Depot workshop, the plant and equipment and the trams is being discussed and planned. This is leading the prioritisation of elements of the delivery works in order to optimise the testing and commissioning period.

Work to refine the tramstop shelters and associated equipment to minimise barriers to use by passengers is also underway.

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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.

| External Projects | Promoter | Project Description | Potential Conflict | | | | | |
|---|----------------------------------|--|---|--------|---------------|--------|--------|--|
| GREEN - No conflict anticipated but being monitored. AMBER - Managing any conflict. RED - Conflict which causes programme concern / unknown effect on tram programme. | | | Tram Contract Dates | | Project Dates | | | |
| | | | | Start | Finish | Start | Finish | Comments |
| New Hotel adjacent Ocean Terminal | Ocean Points Development Limited | New build hotel | Potential conflict with Infraco dependent on timescales. To be monitored. | Jun-10 | Jun-12 | ТВА | TBA | To be monitored. |
| Movement of Abnormal Loads | Sinclair Knight Merz | Transportation of turbines and 45 metre blade sections for Fallago rig wind farm via road transporters from Leith docks along Ocean Drive via Ocean Terminal frontage to Commercial Street, then East through Great Junction Street/Duke Street junction to Salamader Street | Conflict with tram works along required transportation route. Disruption to construction activities. | Mar-10 | Jun-12 | Jun-11 | Dec-11 | Works commenced at Tower Place bridge Mar-10 2 complete turbine movements expected each week for approx. 6 months |
| 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. | Sep-10 | Aug-11 | ТВА | ТВА | To be monitored. Utilities complete. Potential TM interface dependent on Infraco proposals |
| Shrubhill House | Unite | Transformation of former council social work headquarters into 200 bed hotel | None identified. Dependent on timescales. | Sep-10 | Aug-11 | ТВА | ТВА | Awaits planning consent. To be monitored. Utilities complete. Potential TM interface dependent on Infraco proposals |
| 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. | Oct-10 | Feb-12 | ТВА | ТВА | |

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| StJames Centre Redevelopment | CEC / Henderson Global | Redevelopment of existing shopping centre. | Interface with Picardy Place junction re-construction and Cathedral Lane sub-station | Oct-10 | Jun-12 | 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. |
|---------------------------------|---------------------------|---|--|----------|----------|---------|---------|--|
| National Portrait Gallery | | Major building construction and re- furbishment. The renovation of the external facade, the overhauling of the existing windows, the renewal of the existing roof lights and roof covering. 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 | Oct-10 | Sep-11 | Oct-09 | Nov-11 | |
| St.Andrew Square Development | CEC | Demolition of existing buildings bordering South Side St.Andrew Square, South St David Street and Meuse Lane | Infraco Programme | May-10 | Mar-11 | ТВА | ТВА | Infraco activities will not commence until May2010 |
| Waverley Steps | Transport Scotland | Refurbishment of existing Waverley Steps with inclusion of new escalators and elevators | PRINCES STREET Traffic management issues when Infraco in Princes Street should this project require deliveries, craneage or Traffic management in same time period | Complete | Complete | Jun-10 | May-12 | No conflicts expected. |
| Waverley Steps | Transport Scotland | Refurbishment of existing Waverley Steps with inclusion of new escalators and elevators | ST.ANDREW STREET Traffic management issues when Infraco in Princes Street should this project require deliveries, craneage or Traffic management in same time period | May-10 | Mar-11 | Jun-10 | May-12 | No conflicts expected. |
| Waverley Station Re- roofing | Transport Scotland | New roof and general upgrade to station interior | May be Traffic Management issues | May-10 | Mar-11 | Apr-10 | Apr-14 | No conflicts expected. |
| New Hotel in Haymarket | Tiger Developments | New build hotel | | May-10 | Jul-11 | ON HOLD | ON HOLD | No issue as Project cancelled as Planning Application rejected October 2009. |

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| Haymarket Interchange | First Scotrail | Capacity Increase Project - Installation of new lifts and walkways from Haymarket Terrace | Utility diversions continue until late Jan.2010 Potential Interface with Infraco works at Haymarket junction commencing Jan.2010 | May-10 | Jul-11 | Dec-11 | Dec-12 | No conflicts expected. |
|--------------------------------------|--|---|---|--------|--------|--------|----------|--|
| 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 | May-10 | Jul-11 | Aug-09 | Complete | Complete. |
| Haymarket Station | First Scotrail | Installation of new lifts and walkways from Haymarket Terrace | Construction of Haymarket viaduct | May-10 | Jul-11 | ТВА | ТВА | |
| Haymarket Terrace | DTZ Surveyors | Common Repairs to buildings at 2-4-6-8-68 & 74 Haymarket Terrace | Scaffolding and external repairs | May-10 | Jul-11 | May-09 | ASAP | Scaffold erected and building repairs underway between Infraco TM phases. |
| 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 |
| New Hotel | NEL (New Edinburgh Park Ltd) / Whitbread | 120 Bedroom Premier Inn Hotel | Construction traffic TM Interface | ТВА | ТВА | ТВА | ТВА | The site, located at the southern end of Edinburgh Park, is opposite the Park's dedicated railway station and tram stop. |
| 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 | Jun-11 | Sep-11 | ТВА | ТВА | Design and approvals progressing to programme. Confirmed that this will now be a generic tram stop design |
| Gogar Surface Station | Transport Scotland | New station to east of Gogar Depot | Interface with Tram Construction works | Apr 10 | 960/33 | Jul-10 | Jul-11 | Great Interchange Programme reviewed and updated in conjunction with both NR and TS |

Colour code

| Green | No conflict anticipated but being monitored | |
|-------|--|---|
| Amber | Managing any conflict | 1 |
| Red | Conflict which causes programme concern / unknown effect on tram programme | |

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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 wash-up session of the TS projects was carried out late December09 with TS. The next session will be arranged for after Rev 3 Programme agreements are in place.

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Other

Gogar Interchange - Update for Period 2

Approvals

A change in policy by CEC which now requires all Prior Approvals to be submitted to the Planning Committee will lead to a delay in achieving IFC. It is anticipated that the committee will now review the scheme on 23rd June 2010. Efforts will be made to recover the delay associated with this by seeking to accelerate production of IFC once the Prior Approval has been granted. This will depend on availability of the SDS design team, which is a separate team from the core ETN team. The IFC date is in line with Network Rails anticipated date for Planning permission being granted.

Legal Agreements

A meeting between the Head of Legal's has now been arranged for 4 June 2010. Network Rail has now tabled the promised draft list of agreements to TS but this does not cover all agreements required as it only covers agreements to which NR is party. It also does not include the likely scope as originally promised. tie, on 23rd April 2010, provided Transport Scotland with a list of the agreements we believe to be required. tie cannot accept responsibility for any delay associated with agreements not being reached in line with the needs of the construction programme given Network Rail's lack of positive engagement on this issue. The land transfer from CEC to Network Rail cannot proceed ahead of other agreements being substantially complete because the land transfer needs to include servitudes in favour of tie/TEL to allow access to and through this land for the operation and maintenance of the ETN. Transport Scotland have proposed an exercise be carried out to identify where agreements can be integrated to reduce this work scope, tie supports this approach. The scope of tie works does not include any external legal costs in relation to land or agreements and it is likely that tie will need legal advice in relation to agreements with Network Rail. tie expects that the extent of this will become clearer once Network Rail tables some draft agreements for review. Note that to date, no draft agreements have been received from Network Rail.

Other agreements required include TEL/First ScotRail and Scottish Water Section 21's (Both for tie and NR).

Overall design co-ordination

Project management meetings have continued between tie, TS and NR and fortnightly conference calls have taken place between tie, NR and the respective designers.

Design co-ordination is now largely dealing with detailed engineering issues rather than issues of principle. However, during Period 1 Mott MacDonald & Network Rail raised a new significant issue by proposing a double skin EFTE roof rather than the existing single skin. This issue has been resolved with respect to ETN design and scope, and no change is required.

Tram design issues

BSC previously identified a need to discuss the reduced headroom for the OLE through the tramstop with the Independent Competent Person. The **tie** engineering team have discussed this further with BSC and have received verbal confirmation that this is no longer an issue. Final confirmation will be sought during the Design Review.

Design progress

tie have agreed to take responsibility for a revised road drainage design at the A8 which has arisen from Network Rail's sewer design. This is due to the optimum solution being likely to overlap with

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BSC construction activity. Discussions are continuing as to the scope of this work which will require a change in funding from Transport Scotland. A meeting was held with Scottish Water, where SW have agreed to pro-actively seek a more effective solution.

BSC now include a narrative on Gogar Interchange (Design and Construction staging activity) within their period report for Period 1. The content and quality of reporting is limited. **tie** will seek to have this improved upon.

BSC has notified **tie** that the systems elements of the design will be complete in June 2010. **tie** challenged June 2010 as the delivery date at meeting on 26 March, however Siemens were not prepared to commit to an earlier delivery. **tie** still await Siemens programme justifying their position. **tie** will consider potential mitigation measures if the systems design cannot be completed in line with the SDS design.

SDS were due to submit an estimate for the revised scope to BSC on 25 March, but this has was delayed due to the requirement for the sewer protection wall being introduced to **tie** by Transport Scotland / Network Rail. The Estimate was received on 21st April and a review with BSC is currently underway. The Estimate appears to be within the anticipated range. **tie** met Transport Scotland on 28th April to discuss the Estimate further.

At the end of Period 2 tie assesses the design phase as 80% complete for the increased scope.

Forecast Cost to Complete Design

Siemens revised Estimate for design has been reviewed. £309k of the £327k Estimate has been agreed. A letter instructing Siemens to progress the design will be issued by w/e 21 May 2010. The value of revised Siemens design remains within the value previously agreed with Transport Scotland. The remaining £18k relates to commercial management costs which may be covered by consortium overhead. Costs associated with a redesign of the A8 road drainage are provisional within this forecast. This will be undertaken by **tie**, having arisen as a result of Network Rail having to divert the main 1500 sewer.

Forecast outturn remains at £1,042k against an original £880k:

£880k Breakdown

| SDS | £400k |
|---------|-------|
| JRC | £ 30k |
| tie | £100k |
| Siemens | £350k |

£1,0422k Breakdown

| SDS | £540k |
|----------------|-------|
| JRC | £ 45k |
| tie | £100k |
| Siemens | £327k |
| Const. Staging | £ 30k |

Cost reporting

A meeting was held on 19th May 2010 between **tie**, Transport Scotland and Network Rail to review overall cost estimates with an objective of identifying any gaps in scope/ estimate between the parties, particularly in physical and management interfaces. A number of minor areas require updating, but no major issues were identified.

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CEC have received an updated grant letter authorised the increase from £30k to £45k for the JRC scope of work. Currently, CEC/tie have a confirmed grant totalling £945k. CEC will seek an updated grant letter to allow tie to commit to the extra costs involved in completing the design. An updated grant letter will be needed within 2 weeks of tie supplying a full revision of the cost estimate, which will be provided w/e 28 May 2010.

Cost of work done to date is £830k versus the £880k originally forecast and the £1042k revised AFC.

Period 2 progress

Finalisation of the sewer location has allowed the design to progress again. The Prior Approval application was completed and submitted on 18 March 2010. CEC raised 4 key issues on 12 April 2010. Of these 4 issues, three have proposals that should resolve the issue, and discussions are taking place on the fourth with a view to agreeing a final proposal.

SDS has submitted revised runtime analysis incorporating the Gogar Interchange. The runtime analysis will be used to support revised patronage calculations for the Edinburgh Tram Network. **tie** have received Transport Scotland approval to progress this with JRC.

Detailed design continued for the tram stop structure and the northern retaining wall. SDS now estimates that design will be complete by 11 June ready to be submitted for Technical Approval. CEC has agreed to review the design as a priority but it is not realistic for that review to be complete within 3 weeks. SDS now forecast 14th July for IFC (TBC).

Programme

An initial appraisal of impact on programme has been carried out. In the last period **tie** advised Transport Scotland that the potential impact of Gogar Interchange programme to ETN could be in the region of 6 months. Transport Scotland have sought and been given an assurance that this appraisal was one of several scenarios to be tested that **tie** will be investigating further scenarios with a view to improving this outcome.

Programme milestones are as follows:

| Activity | Planned | Period 6 forecast | P2 forecast / Actual |
|--|----------|----------------------|-------------------------|
| Complete prelim design of additional tram stop | 10/8/09 | 18/9/09 | 30/9/09 (A) |
| Submit Structures Technical Approval application | 19/11/09 | 8/1/10 | 11/6/10 |
| Submit Prior Approval application | 26/11/09 | 15/1/10 | 18/3/10 (A) |
| Receive Prior Approval | 5/2/10 | 12/3/10 | 30/6/10 |
| Receive Structures Technical Approval | 5/2/10 | 8/3/10 | 9/7/10 |
| IFC by SDS of civils design and outline systems design | 26/2/10 | 22/3/10 | 14/7/10 |
| IFC by Siemens of detailed systems design | Z. | X4. | June 2010 |

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Long-lead items / abortive works

tie has reviewed the long-lead items/abortive works previously identified against latest programme forecasts and presented a paper to Transport Scotland on options for dealing with long lead items and associated costs and risks. Transport Scotland has confirmed that tie should take steps to minimise the abortive costs on the basis that the Gogar Interchange will go ahead. CEC and Transport Scotland require to agree term of a grant extension that will also cover abortive costs.

tie has confirmed to BSC the OLE pole heights to be ordered through the Gogar Interchange area in order to minimise abortive costs.

BSC has notified **tie** that a decision is needed on the design of the switches & crossings for the east entry to the Depot by June 2010. **tie** will confirm the revised design requirement to BSC.

Drainage for the earthworks at the Depot is currently being installed to the west of the Depot Access Bridge. There is no option that does not involve some abortive cost if Gogar Interchange goes ahead as drainage must tie into the sewer that will be relocated by Network Rail. tie has identified ways of minimising the cost of those abortive works.

tie is continuing with the implementation of the existing ETN scheme unless otherwise instructed by Transport Scotland.

Construction Staging

Following submission of the design for Technical Approval, the construction staging programme will be focussed upon during Period 3 to help determine the most appropriate sequencing of the works.

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Other Reporting Streams Progress

The following sections describe progress on other areas of the project during Period 2.

Temporary traffic regulation orders (TTROs)

 A review of traffic management arrangements across the City Centre is now underway, this to return the City Centre (as much as is feasible) to the pre-tramworks arrangements, using temporary kerbing. To date, the Haymarket area has been reinstated with works scheduled for the West End, Charlotte and St Andrew Square and Leith Walk during Period 3.

Traffic regulation orders (TROs)

 A Report is being prepared for submission to Council on 27 July regarding the recommendation to make TRO1 as submitted. Should any modifications be required, these to be picked up in a future TRO.

Network Rail

- The Immunisation Calculations Study has now being reviewed by NWR.
- BSC study confirms that 14 off FETR will be required for the immunisation solution.
- NR Signalling Immunisation (EMC) Test Plan will be developed to include all verification and validation tests that will evidence that there is no significant safety issue for NR assets failing 'wrong side'. Initial draft has been informally reviewed and commented. BSC has not yet given an indication of when formal issue of the plan will happen.
- These documents will be compiled into the Case for Safety Signalling. Expected for delivery to ISRP in June 2010 for an ISRP on 01/07/2010.

Murrayfield

A meeting was held on 14th May with the SRU, Souters and the floodlight sub-contractor to consider options to implement and resolve the over-heating issue. It was agreed that Souters should arrange to meet with the protective padding supplier and consider if the pads could be adapted, by hanging on an independent frame, to provide air circulation between the cabinets and the padding. The floodlight contractor agreed to assist and then carry out further monitoring trials to assess the temperature and effectiveness of the solution. A report is expected in one week's time from STRI, who recently carried out a further pitch inspection to assess and monitor the grass sward growth and the nutrient level in the soil.

Burnside Road Realignment

- The monitoring by RCL/Newgate ceased on 14th May 10. BAA will report any issues to tie up to 28th May 10 at which time the system will be handed over to BAA, provided the documentation has been agreed.
- BAA resolved the problems with its existing payment control system which has improved the performance of the barriers.

MUD Works at Edinburgh Airport

 The amendments to the format of the final documentation, requested by BAA, were submitted to BAA on 17th May 10.

Cemetery Wall on Constitution Street

Works by tie to the Cemetery Wall completed for the time being in Period 2

3 Headline cost report

Current financial year

| | | FY 10/11 | | | FY 10/11 | | | FY 10/11 | T T | COWD | Costs | Total |
|--------------------|-------------|----------|-------------------|--------|-------------------------|----------|----------|----------|----------|---------|----------|----------|
| | COWD Period | | COWD Year To Date | | COWD Full Year Forecast | | | To Date | To Go | AFC | | |
| | Actual | Budget | Variance | Actual | Budget | Variance | Forecast | Budget | Variance | Actual | Forecast | Forecast |
| Total Project COWD | 5.055 | 6.714 | -1.659 | 14.976 | 16.635 | -1.659 | 143.011 | 142.245 | 0.766 | 362.818 | 170.491 | 533.309 |
| Other Funding | 0.417 | 0.554 | -0.137 | 1.237 | 1.374 | -0.137 | 11.808 | 11.745 | 0.063 | 29.957 | 14.077 | 44.035 |
| Demand on TS | 4.638 | 6.160 | -1.522 | 13.739 | 15.261 | -1.522 | 131.203 | 130.500 | 0.703 | 332.860 | 156.414 | 489.274 |

We continue in this report to reflect an AFC outturn estimate of $\mathfrak{L}533.3m$. However, as previously reported, given the continuing commercial uncertainties with the Infraco and continuing delays to the project it is considered unlikely that the full scope of Phase 1a will be completed within the available funding envelope of $\mathfrak{L}545m$. It is not however possible at the present time to accurately forecast a reliable outturn cost until the key commercial issues are resolved through the contractual and legal process.

Regular briefings are being provided to both CEC and Transport Scotland to keep them updated on progress and implications for the project programme and finances of all the above matters. Latest AFC Update 18th March 2010.

tie are now escalating all key issues to Dispute Resolution Procedure (DRP) and other contractual measures following the failure of mediation to provide an acceptable outcome. COWD to date is £362.8m, with funding to date split to TS (£332.9m) and CEC (£29.9m).

For the purposes of clarity of the 2010/11 figures:

A forecast of £139.7m was presented to TS in Jan-10 with a range of \pm £35m/-£30.5m according to a range of specified assumptions. The budget included in the Headline cost report is the £142.2m, which was based upon the forecast as at the end of Period 12. The current forecast is £143.0m, which is the Q1 2010/11 forecast set as at the end of Period 13 - 09/10. This forecast is updated quarterly with risk to forecast highlighted in the report.

Risks identified in relation to the latest Infraco forecast are anticipated to give TS funding headroom in the Q1 forecast update (period 3). Risks are identified in the 'Profile' section 3.2 (below).

Actual YTD P2 & forecast P3-P13 FY10/11

| £m | 2010/11 to P2 | Forecast P3-P13,10/11 | Forecast FY10/11 |
|-----------------------------|------------------|--------------------------|---------------------|
| Infrastructure and vehicles | 11.7 | 113.3 | 125.0 |
| Utilities diversions | 0.1 | -5.0 | -4.9 |
| Design | 0.3 | 2.0 | 2.3 |
| Land and compensation | 0.1 | 0.0 | 0.2 |
| Resources and insurance | 2.8 | 11.6 | 14.3 |
| Base costs | 15.0 | 121.9 | 136.9 |
| Risk allowance | 0.0 | 6.1 | 6.1 |
| Total Phase 1a | 15.0 | 128.0 | 143.0 |

Note: Tram COWD Full Year ended 09/10 was £113.8m against budget £150.1m (excl 1b).

YTD 2010/11 COWD is £15.0m in period 2, -£1.6m behind the period 1 forecast profile.

Full year forecast for 2010/11 is held at £143.0m. This forecast is being held from P13, and includes a base PM forecast of £136.9m and unallocated risk of £6.1m.

tie have not yet certified the P1 Preliminary milestone payments as BSC have not complied with the contractual obligations to allow certification (value £1.46m in the period).

Key Risks to the £143.0m forecast for 2010/11 are currently assessed at -£24.9m. At risk, and forecast in P2 2010/11 are:

- On-street Milestones for sections 1a & 1b (-£8.0m),
- On-street change forecast (-£1.2m),
- Prelims realignment (-£2.7m),
- Milestones, change and other movements into 2011/12 (-£6.9m), and;
- Unallocated risk (-£6.1m).

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 2010/11 and future years.

Current financial year profile

Profile for FY10/11

| £m | Q1 | Q2 | Q3 | Q4 | 120100100120223020 |
|-----------------------------|--------|--------|---------|----------|--------------------|
| | (p1-3) | (p4-6) | (p7-10) | (p11-13) | Total FY10/11 |
| Infrastructure and vehicles | 16.5 | 25.4 | 50.3 | 32.8 | 125.0 |
| Utilities diversions | -0.2 | -2.9 | -1.8 | 0.0 | -4.9 |
| Design | 0.5 | 0.6 | 0.7 | 0.6 | 2.3 |
| Land and compensation | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 |
| Resources and insurance | 3.9 | 3.0 | 4.0 | 3.4 | 14.3 |
| Base costs | 20.8 | 26.1 | 53.2 | 36.8 | 136.9 |
| Risk allowance | 0.0 | 1.4 | 2.7 | 2.0 | 6.1 |
| Total Tram | 20.8 | 27.5 | 55.9 | 38.8 | 143.0 |

- Costs for 2010/11 are forecast at £143.0m. This forecast is sensitive to the key risks as identified above, and will be updated for Q2 (in the period 3 report).
- The latest forecast includes a range of assumptions and sensitivities and was informed by linking
 the latest tie PM view to Infraco construction milestones and taking a best view of what is likely to
 be achieved in the year. The realigned base costs and risk were then linked against this.
- The current agreed budget for 2010/11 is £142.3m, with TS share of the budget £130.5m.

Total project anticipated forecast cost

Re-baselined Phase AFC and profiling

| £m | Cum FY07/08 | Actual 08/09 | Actual 09/10 | FY 10/11 | FY 11/12 | AFC |
|-----------------------------|----------------|-----------------|-----------------|-------------|-------------|-------|
| Infrastructure and vehicles | 30.6 | 45.2 | 83.5 | 125.0 | 29.1 | 313.4 |
| Utilities diversions | 18.4 | 33.4 | 10.6 | -4.9 | 0.0 | 57.5 |
| Design | 24.4 | 4.7 | 2.1 | 2.3 | 0.6 | 34.2 |
| Land and compensation | 16.8 | 1.7 | 1.6 | 0.2 | 0.0 | 20.3 |
| Resources and insurance | 42.9 | 16.0 | 15.9 | 14.3 | 12.7 | 101.8 |
| Base costs (inc 1b) | 133.1 | 101.0 | 113.8 | 136.9 | 42.5 | 527.2 |
| Risk Allowance | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 6.1 |
| Total | 133.1 | 101.0 | 113.8 | 143.0 | 42.5 | 533.3 |

Note: Base costs include £6.2m for ph 1b.

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The TEL board have approved a risk allowance within the current funding arrangements of up to £48.2m, which takes the current agreed budget up to £530.0m. **tie** continue to forecast £533.3m in this report as an AFC.

4 Time schedule report

Report against key milestones

The agreed baseline programme reference for this project is that at Financial Close leading to revenue service in July 2011. The table below reflects the milestones set out against the Rev1 programme.

| Milestones | Baseline programme date | Actual / current forecast date tie live prgm | | |
|---|-------------------------------|--|--|--|
| Approval of DFBC by CEC | 21 Dec 06A | 21 Dec 06A | | |
| MUDFA – commencement of utility diversions | 02 Apr 07A | 02 Apr 07A | | |
| TRO process commences | 14Dec07A | 10-Dec-07A | | |
| Approval of FBC by TS – approval and funding for INFRACO / Tramco | 09 Jan 08 | Dec 07A | | |
| Princes Street closed | 03-Feb-09 | 22-Feb-09A | | |
| Tramco / INFRACO - award following CEC / TS | 28 Jan 08 | 14 May 08A | | |
| approval and cooling off period and SDS novation. | | | | |
| Construction commences | 14-Apr-08 | 14-May-08A | | |
| First track installation commences – on street | 03-Nov-08 | Jun 2009A | | |
| Carrick Knowe Bridge commences | 21-Aug-08 | 19-Aug-08A | | |
| A8 underpass commences | 08-Aug-08 | 28-Aug-08A | | |
| Haymarket viaduct commences | 08-May-08 | 01-Sep-08A | | |
| Edinburgh Park viaduct commences | 06-Aug-08 | 01-Sep-08A | | |
| Tram mock-up delivered | Oct 2008 | Nov 2008A | | |
| Demolition of Wanderers clubhouse | 25-Aug-08 | 05-Jan-10A | | |
| Edinburgh Park viaduct complete | 24-May-09 | Jul-10 | | |
| Princes Street re-opened | 01-Aug-09 | 29-Nov-09A | | |
| NR immunisation complete | Nov 2009 | Dec-10 | | |
| Utilities works complete (including telecoms) | Nov 2008 | Nov-10 | | |
| All demolition work complete (S21C) | 22-Aug-08 | Oct-10 | | |
| All Issue for Construction (IFC) drawings delivered | 21-Jan-09 | Dec-10 | | |
| (inc Gogar interchange design) | | | | |
| Haymarket viaduct complete | 08-Dec-08 | Nov-10 | | |
| All consents and approvals granted | 18-May-09 | Dec-10 | | |
| Design assurance complete | 20-Jan-09 | Dec-10 | | |
| 1 st Tram delivered | 09-Apr-10 | 25-Apr-10A | | |
| Carrick Knowe bridge complete | 11-May-09 | Nov-10 | | |
| A8 underpass complete | 14-Jul-09 | Apr-11 | | |
| Roseburn viaduct commences | 20-Jan-09 | Sep-10 | | |
| TRO process complete | 01-Dec-09 | Jul-10 | | |
| Recruitment commences (SMC staffing) | July 2010 | Sep-10 | | |
| 1 st OHL installed (Commence Section 2) | 11-Dec-09 | Apr-11 | | |
| 1 st section (other than depot) complete ready for energisation (2) | 25-June-10 | Jun-11 | | |
| Commission Section 2 (Haymarket to Roseburn junction) | 11-Jan-10 | Nov-11 | | |
| Final tram delivered | 17-Jan-11 | Feb-11 | | |
| Commission Section 6 (depot) | 25-Mar-10 | Oct-11 | | |
| Roseburn viaduct complete | 20-Apr-10 | Sep-11 | | |
| Test track complete (Ready for tram testing) | 23-Apr-10 | Mar-12 | | |
| Commission Section 7 (Gogar to Edinburgh Airport) | 25-June-10 | Oct-11 to Mar-12 | | |
| Commission Section 1 (Newhaven to Haymarket) | 11-Mar-11 | Oct-11 to Jul-12 | | |

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| Milestones | Baseline programme date | Actual / current forecast date tie live prgm |
|---|-------------------------------|--|
| Commission Section 5 (Roseburn junction to Gogar) | 09-Nov-10 | Apr-11 to Sep-12 |
| Driver training commences (excludes depot) | Nov 2010 | Jun-12 |
| System testing complete off street | 09-Dec-10 | Oct-12 |
| Construction Line 1a complete | 17-Jan-11 | Sep-12 |
| System testing complete on street | 16-Feb-11 | Oct-12 |
| Letter of "no objection" from Independent Competent Person to commence tram running | 17-Apr-11 | Dec-12 |
| Shadow running starts | 18-Apr-11 | Dec-12 |
| Shadow running complete | July 2011 | Mar-13 |
| Letter of "no objection" from Independent Competent Person to commence revenue service | July 2011 | Mar-13 |
| Open for revenue service | July 2011 | Mar-13 |

^{*}BSC Rev 2 programme is not an agreed Contract programme

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

Actual / forecast date is ahead or in line with baseline Green: Slight slippage - readily recoverable with action.

Significant slippage but expect recovery can be achieved Notable / significant slippage – difficult to recover, even with action. Red:

Key issues affecting schedule

BSC have submitted the following programmes in the period

- Period 3-2 Progress Report.
- Rev 3A Programme (Rev 3 Step 4 plus additional mitigation)
- Rev 3B Programme (Rev 3 Step 5 including BSC identified acceleration)

Neither of the Rev 3A/3B programmes demonstrate what mitigation or acceleration has been considered, what the individual impacts are and what are the associated costs.

The continued Utilities diversionary works are restricting access to on-street areas although this is diminishing week on week. The inability to agree a way forward for the On-street works is severely hampering the programme. BSC's slow progress in available sections is frustrating progress. tie continue to advise BSC formally on a weekly basis of areas that are accessible to commence works.

12-Week look-ahead

Until the revised programme is in place the forecast for the next 12 weeks continues to be generated from the tie Live programme including latest updated information from both BSC and tie Project Managers.

| Milestones | Actual / current forecast date |
|---|--------------------------------------|
| 6 - Complete Depot Earthworks | 07-May-10A |
| 6 - Commence Depot Sub-station | 12-May-10A |
| 1D - Complete Utility diversions Haymarket to Shandwick Place | 21-May-10A |
| 1B - Telecoms Works Jane Street to Foot of the Walk | 21-May-10F |
| 1A1 - Continue S-E-Ms Bernard Street to Foot of the Walk | 24-May-10C |
| 1A3 – S17 Construction Works Tower Place bridge | 24-May-10C |
| 5C - S32 Depot Access bridge | 24-May-10C |
| 1A4 - Lindsay Rd Retaining Wall A+C | 24-May-10C |

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| Milestones | Actual / current forecast date |
|---|--------------------------------|
| 1A4 - Newhaven Rd to Ocean Terminal - ch 0000-0160 - Roadworks | 24-May-10S* |
| 1A4 - Newhaven Rd to Ocean Terminal - ch 0000-0160 - Trackworks | 24-May-10S* |
| 1A4 - Newhaven Road Tramstop | 24-May-10S* |
| 1D - Haymarket ch 1250-1125 - Roadworks Phase 1 | 24-May-10S* |
| 5A - Construct New Scotrail Carpark | 24-May-10S |
| 5C - W16 Commence Gyle Stop RW | 24-May-10S |
| 5B - Edinburgh Park Stn - Edinburgh Park Central Trackworks | 24-May-10C |
| 1B - Telecoms Works Jane Street to McDonald road | 24-May-10C |
| 2A -Trackworks Haymarket to Roseburn Junction -1135m | 24-May-10S |
| 2A – Haymarket viaduct | 24-May-10C |
| 5A - W3 Russell Road retaining wall | 24-May-10C |
| 5A - W4 Russell Road retaining wall | 24-May-10C |
| 5B - S23 Carricknowe bridge | 24-May-10C |
| 5A - Demolition of Wanderers Clubhouse continues | 24-May-10C |
| 5B - Trackworks Balgreen Rd Saughton Road North | 24-May-10C |
| 5C - A8 Underpass | 24-May-10C |
| 5C - Trackworks Depot Stop to Gogarburn | 24-May-10C |
| 6 - Depot Building Pits | 24-May-10C |
| 7 - Gogar Landfill | 24-May-10S |
| 7 - W14/W15 Gogarburn RW | 24-May-10C |
| 1D - Shandwick ch 850-440 - Trackworks Phase 1 | 24-May-10S* |
| 5B – Trackworks Bankhead to Edinburgh Park Station | 24-May-10C |
| 1C1 - Utility Diversions McDonald Rd to Picardy Place | 30-May-10F |
| 1C1 - Telecoms - BT Installation Works 1C07 - (Greenside Lane to Gayfield Street South) | 01-Jun-10S |
| 1C1 - Telecoms - BT Installation Works 1C08 - (Annandale Street to Montgomery Street) | 01-Jun-10S |
| 5B - Bankhead Drive TS | 01-Jun-10S |
| 1C3 – Track works Waverley bridge junction to South St Andrew Square | 07-Jun-10S |
| 1D - Shandwick ch 850-440 - Roadworks Phase 1 | 07-Jun-10S* |
| 5B - Saughton Rd TS | 16-Jun-10S |
| 1D – Shandwick Place Tramstop | 25-Jun-10S |
| 1D – Telecoms cabling Haymarket to Crescents | 26-Jun-10F |
| 5A - Murrayfield Stadium Accommodation Works (excludes clubhouse) | 29-Jun-10S |
| 7A - S29 Gogar Underbridge | 30-Jun-10F |
| 5C – Trackworks Edinburgh Park to Gyle | 05-Jul-10S |
| 1A4 – Telecoms Newhaven to Ocean terminal | 05-Jul-10S |
| 5B - Trackworks Saughton Rd to Bankhead (incl Guided Busway) | 06-Jul-10F |
| 5A - W18 Murrayfield TS RW | 09-Jul-10S |
| 5C - Complete S27 Edinburgh Park Station bridge | 10-Jul-10F |

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| Milestones | Actual / current forecast date |
|---|--------------------------------------|
| 1A3 - Telecoms Ocean Terminal to Victoria Dock | 14-Jul-10S |
| 1A3 - Continue Utility Diversions Ocean Terminal to Port of Leith | 14-Jul-10F |
| 1A4 - Continue Utility Diversions Newhaven to Ocean Terminal | 14-Jul-10F |
| 1A4 - Newhaven Rd to Ocean Terminal - ch 0700-0850 - Roadworks | 14-Jul-10S* |
| 1A4 - Newhaven Rd to Ocean Terminal - ch 0600-0700 - Trackworks | 14-Jul-10S* |
| 1C3 - Telecoms Works St Andrew Square to Princes Street West | 16-Jul-10F |
| 1C - Leith Walk - ch 0-375 - Roadworks | 20-Jul-10S* |
| 1C2 - Telecoms Works Picardy Place to St Andrew Square | 20-Jul-10F |
| 5A - S20 Russell Road bridge | 03-Aug-10S |
| 5B – S26 South Gyle Access bridge | 03-Aug-10S |
| 1C1 - Telecoms Works McDonald Rd to Picardy Place | 13-Aug10F |

^{*} Subject to agreement on OSSA

A = Actual date S = Forecast Start Date F = Forecast Finish date C = Continuing Works Document Type: Issue: Progress Meeting Date: Page: 53 Progress Report Issue 1 Period 02

5 Risk and opportunity

Review of risk register

Summary

There were five risk reviews held in the period. There were thirteen drawdowns on the risk allowance approved in the period totaling £5,064,921. These are detailed later in the report. Based upon the revised project risk allowance this leaves a risk balance of £6,121,129.

Risk and Opportunity Reviews

The following reviews took place in the period:

| Date Format of review Attendees | | Comments | |
|---------------------------------|---|--|---------------------------------------|
| 18/5/10 | Depot Risk Review | Project Risk Manager Project Manager | Risks and Treatment Plans Reviewed |
| 18/5/10 | Signalling, Communication and Control (SCC) Risk Review | Project Risk Manager Project Manager | Risks and Treatment Plans Reviewed |
| 18/5/10 | Structures Risk Review | Project Risk Manager Project Manager | Risks and Treatment Plans Reviewed |
| 18/5/10 | NR Immunisation Risk Review | Project Risk Manager Safety Assurance & Immunisation Manager | Risks and Treatment Plans Reviewed |
| 20/5/10 | Infraco Risk Review | Project Risk Manager Infraco Construction 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 44 risks in the risk register. The top five project risks are listed on the following pages.

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1011 - Period 02 Top 5 Risks

| ARM Risk ID | Cause | Risk Description Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous | Current | Due | Action |
|-------------|---|---------------------------|--|------------|--------------|------------|--|------------------------------|------------------------------|------------------------|-----------------|
| *343 | General delay to programme with various causes e.g. failure to obtain approvals on time; combactor issues, access after | | Increased out-turn cost due to delay plus revenue loss | S Bell | 10g0 725 60 | řů. | Contractually assertive workstreams to progress programme | Status On Programme | Status On Programme | Date 30-May-10 | Owner S Bell |
| | completion of utility diversions | | | | | | Clause 34 / 80.015 DRP Mudfa Rev 8 response | On Programme On Programme | On Programme On Programme | 31-Aug-10 31-Aug-10 | |
| | | | | | | | Enhanced management focus on various workstreams and options relating to progress of the project | On Programme | On Programme | 31-May-10 | R Jeffrey |
| | | | | | | | Access Maps showing areas available | On Programme | On Programme | 30-Nov-10 | F McFadde |
| | | | | | | | Liason between fie/BSC programme managers | On Programme | On Programme | 30-Dec-11 | T Hickman |
| | | | | | | | Programme Management Panel process | On Programme | On Programme | 30-Dec-11 | F McFadde |
| | | | | | | | Weekly tie/BSC commercial meetings | On Programme | On Programme | 30-Dec-11 | M Paterson |

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1011 - Period 02 Top 5 Risks

| ARM Risk ID | Cause | Risk Description Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous | Current | Due | Action |
|-------------|---|---|-------------------------------------|------------|--------------|------------|---|------------------------|------------------------|-------------------|-----------------|
| | 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 | Additional cost and programme delay | S Bell | Haun 20.00 | | Continued DRP / Adjudication Process | Status On Programme | Status On Programme | Date 31-Jul-10 | Owner S Bell |
| | November 2007 and May 2003 | design change | | | | | Contract interpretation and technical expert witness work | On Programme | On Programme | 31-Jul-10 | S Clark |
| | | | | | | | Enhanced management focus on various workstreams and options relating to progress of the project | On Programme | On Programme | 31-May-10 | RJeffrey |
| | | | | | | | 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 atc) | Complete | Complete | 14-Aug-09 | S Bell |
| | | | | | | | PA1 Challenge | On Programme | On Programme | 31-Aug-10 | S Bell |
| | | | | | | | Of the issues previously highlighted as going through DRP, 1 has been ruled in favour of tie. 2 have been agreed. 2 have been ruled in BSC's favour and this is being reviewed by tie. Further issues are due to enter DRP in December 09 and January 10. | Complete | Complete | 31-Jan-10 | SBell |
| | | | | | | | Resolution Strategy approved - 1st DRP to go 10th August, audit requests to BSC for information going w/c 3.8.09 | Complete | Complete | 10-Aug-09 | S Bell |
| | | | | | | | Deploy alternative utilities contractors to progress utilities | On Programme | On Programme | 30-Nov-10 | F McFadden |
| | | | | | | | Siemens 33 initiative to achieve Airport to Bankhead Drive | On Programme | On Programme | 30-Jun-10 | F McFadden |

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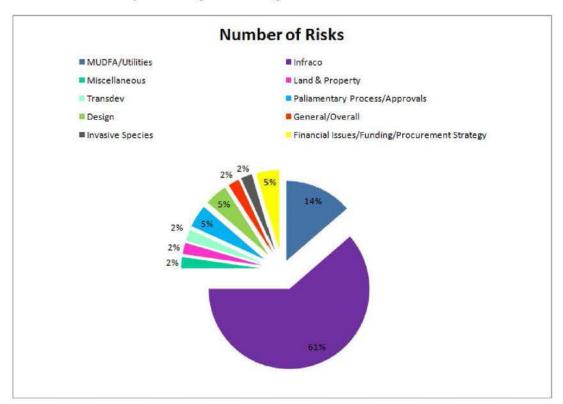
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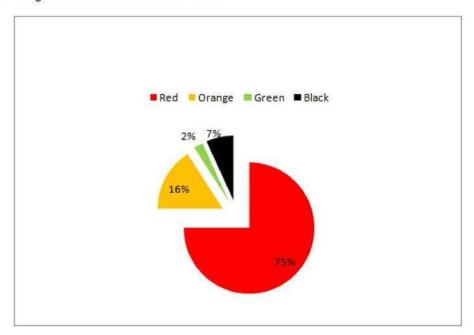
1011 - Period 02 Top 5 Risks

| ARM Risk ID Cause | Risk Description Event | Effect | Risk Owner | Significance | Black Flag | Treatment Strategy | Previous | Current | Due Date | Action |
|---|---|---|------------|--------------|------------|---|--------------------|--------------------|-------------|-----------------|
| 1091 | Excavation of soft, unsuitable material below Earthworks outline | Additional cost and programme delay | F McFadden | Hytrexe (0) | | Donaldsons to carry out surveys | Status Complete | Status Complete | 30-Jul-09 | Owner C Neil |
| | | | | | | Enhanced management focus on various workstreams and options relating to | On Programme | On Programme | 31-May-10 | D MacKay |
| | | | | | | Extent of soft ground being investigated. External specialist advice deployed. | On Programme | On Programme | 31-May-10 | M Paterson |
| | | | | | | Interative testing approach in order to maximise value | On Programme | On Programme | 31-Jul-10 | C Neil |
| | | | | | | Technical challenge against Donaldsons designs | On Programme | On Programme | 31-Jul-10 | C Neil |
| *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 | | Agreed with BSC for independant evalutation to get benchmark | Complete | Complete | 30-Jul-09 | M Paterson |
| | | | | | | All estimates to be scrutinised by the commercial team and, where appropriate, challenge made to ISC. Additional resource (T&T) being used to check estimates to reduce delay and other commercial resources on there are | On Programme | On Programme | 30-Dec-10 | D Murray |
| | | | | | | Enhanced management focus on various workstreams and options relating to progress of the project | On Programme | On Programme | 31-May-10 | D MacKay |
| | | | | | | Legal challenge to Clause 80 and BSCs interpretation thereof | On Programme | On Programme | 31-Jul-10 | SBell |
| 1094 | Roads throughout works require ful | I Programme impact plus | F McFadden | Him. 24 VO | | Carry out surveys to confirm extent of roads requiring full depth reconstruction | Complete | Complete | 30-Jun-09 | C Neil |
| | depth reconstruction | additional costs. £1.5m cap applies to only 4 areas. (PA 12) Also affects (PA 14) | | | | Intensive engagement with CEC, pallette of options, methodology being agreed | On Programme | On Programme | 31-Jul-10 | C Neil |
| | | | | | | Suite of options from surveys to be reviewed and agreement reached | On Programme | On Programme | 1-Jul-10 | C Neil |
| | | | | | | tie developed on-street proposal | On Programme | On Programme | 31-Aug-10 | M Paterson |

The risks within the Project Risk Register are categorised below.



The ratings of the risks are illustrated below.



New risks and concerns

FOISA exempt Yes

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.

Infraco

The following five items were added to the Infraco Concerns Register in the period.

| • | | | Risk description | |
|--------------|----------------|---|---|--|
| | Risk Number | Cause | Risk Event | Effect |
| | - 1 | | | |
| Immunisation | | NR may refuse to "Note and Support" the technical argument for the immunisation solution | Additional assurance required | Delay to the immunisation works resulting in not being able to apply traction power to ETN |
| Immunisation | | design/implementation is conditional on the assumption | NR delay supply of relevant design documents NR enforced site delays. | Additional costs associated with Volker Rail management costs for progressing the delay |
| Immunisation | 129 | BSC "Piggy Back" possessions strategy for Immunisation works fails | Costs associated with possessions are included in the price, however they assume that Volker Rail can 'piggy back' on Balfour Beatty possessions in the area. | Additional cost and delay if Balfour Beatty withdraw from their possession |
| Immunisation | 130 | Test and commissioning costs may increase | BSC assumption that the works are minor may be incorrect | Increased cost for T&C for the Immunisation Solution |

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 periods |
|-----------------|-----------|-------------|---|-----------------|----------|------------|--------|-------------------|
| | | | Public deposit commenced 22nd Feb and the formal public consideration phase is underway and will be concluded on 22nd march at which point objections will be dealt with in the | | | | | |
| A Sim | 977 | 712 | form of a formal report to the council for consideration Obstruction and voids survey, establish ownership reduced | 30/06/2010 | Yes | No | No | Period 04 |
| C Neil | 931 | 681 | delay on discovery. | 31/05/2010 | Yes | No | No | Period 03 |
| 3 Neil | 1104 | | Utility conflicts being identified | 01/06/2010 | | No | No | Period 03 |
| 7000000 | - | | Following identification of conflicts potential solution such as | 100,000,000,000 | 1000 | | 1000 | ********** |
| C Neil | 1104 | 701 | protection measures to be identified | 01/06/2010 | Yes | No | No | Period 03 |
| C Neil | 1091 | 705 | Technical challenge against Donaldsons designs | 31/07/2010 | | No | No | Period 05 |
| C Neil | 1091 | 706 | Interative testing approach in order to maximise value | 31/07/2010 | Yes | No | No | Period 05 |
| C Neil | 1094 | | Carry out surveys to confirm extent of roads requiring full depth reconstruction | 30/06/2010 | Yes | No | No | Period 04 |
| C Neil | 1094 | 673 | Suite of options from surveys to be reviewed and agreement reached | 30/07/2010 | Yes | No | No | Period 05 |
| | 40000 | 3999 | Intensive engagement with CEC, pallette of options, | O'A REPORT OF | | 6-01 | 121 | |
| C Neil | 1094 | | methodology being agreed | 31/07/2010 | | No | No | Period 05 |
| D Burns | 869 | 644 | Length of Line 1a to be re-surveyed on regular basis | 30/06/2010 | Yes | No | No | Period 04 |
| D MacKay | 343 | 713 | Enhanced management focus on various workstreams and options relating to progress of the project | 31/05/2010 | Yes | No | No | Period 03 |
| D MacKay | 1077 | 715 | Enhanced management focus on various workstreams and options relating to progress of the project | 31/05/2010 | Yes | No | No | Period 03 |
| D MacKay | 1091 | 716 | Enhanced management focus on various workstreams and options relating to progress of the project | 31/05/2010 | Yes | No | No | Period 03 |
| | | | Enhanced management focus on various workstreams and | | | | | |
| D MacKay | 1101 | 717 | options relating to progress of the project. Workstsreams | 31/05/2010 | Yes | No | No | Period 03 |
| D Sharp | 279 | | Fortnightly meetings of Approval Task Force | 31/07/2010 | | No | No | Period 05 |
| D Sharp | 279 | | Monitoring and tracking through the 3rd party rep | 30/06/2010 | | No | No | Period 04 |
| D Sharp | 1106 | TA III | Use of additional resources to apportion accountability for delay in issuing of IFC | 31/05/2010 | Yes | No | No | Period 03 |
| D Sharp | 271 | | Assure the quality and timing of submissions | 31/07/2010 | | No | No | Period 05 |
| D Sharp | 271 | | Fortnightly meetings of Approval Task Force | 31/07/2010 | Yes | No | No | Period 05 |
| M Blake | 1102 | 696 | Obtain reduction from SUCs | 01/06/2010 | Yes | No | No | Period 03 |
| | | 777 | Where relaxation cannot be obtained replace plastic with | | | | | |
| M Blake | 1102 | 697 | steel | 01/06/2010 | Yes | No | No | Period 03 |
| M Blake | 1105 | 699 | Examine possibility of additional protection being used rather than additional diversion utilities | 01/06/2010 | Yes | No | No | Period 03 |
| M Paterson | 1091 | 667 | Extent of soft ground being investigated. External specialist advice deployed. | 31/05/2010 | Yes | No | No | Period 03 |
| S Bell | 343 | | Contractually assertive workstreams to progress programme | 30/05/2010 | Yes | No | No | Period 03 |
| S Bell | 1077 | 703 | Continued DRP / Adjudication Process | 31/07/2010 | Yes | No | No | Period 05 |
| S Bell | 1077 | 724 | Siemens 33 initiative to achieve Airport to Bankhead Drive Legal challenge to Clause 80 and BSCs interpretation | 30/06/2010 | Yes | No | No | Period 04 |
| S Bell | 1101 | 707 | thereof | 31/07/2010 | Yes | No | No | Penod 05 |
| S Clark | 1077 | | Contract interpretation and technical expert witness work | 31/07/2010 | | No | No | Period 05 |
| W Biggins | 911 | | Liase with Scottish Power to agree and approve method of crossing tunnel. | 31/07/2010 | | No | No | Period 05 |

FOISA exempt

Yes

No

Cost Quantative Risk Analysis

The Project Risk Allowance at financial close was £30,336,196. This was increased in Period 1 by £17,982,993. Drawdowns to the end of Period 2 10/11 now total £42,198,060. The remaining risk balance based on the approved QRA plus the additional funding is £6,121,129.

Risk drawdown

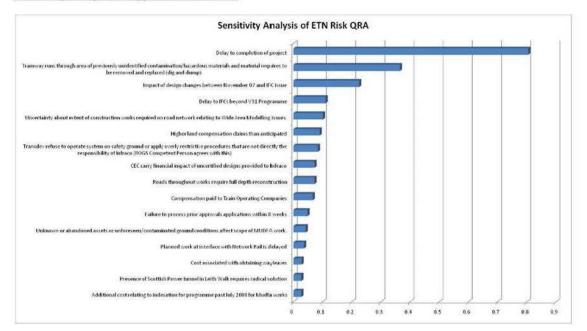
The following table illustrates the drawdown applications on the project risk and contingency allocations in Period 02.

| Description | Owner | Value (£) |
|---|---------------|------------|
| Section 5C - Ground Improvement Works | Mike Paterson | 930,159 |
| Section 7 - Ground Improvement Works | Mike Paterson | -1,139,306 |
| Section 5B - Ground Improvement Works | Mike Paterson | -1,048,154 |
| Adjustment to contingency (COP143,234,280) | Mark Hamill | 81,263 |
| Supply of Pedestrian Marshalls | Mike Paterson | -8,640 |
| Russell Road retaining wall - BDDI-IFC risk | Mike Paterson | -1,461,857 |
| Misc Variations for Section 1A | Mike Paterson | -338,246 |
| Water of Leith Sewer Lining | Mike Paterson | -59,709 |
| A8 Underpass Phase 2 Piling Obstructions | Mike Paterson | -9,481 |
| Carrick Knowe Bridge | Mike Paterson | -130,000 |
| White lining at Haymarket Station Car Park | Mike Paterson | -3,843 |
| Newhaven Pedestrian Crossing | Damian Sharp | -9,131 |
| Utilities Design - Crawley Tunnel Valve Arrangement | David Carnegy | -7,658 |
| | Total | -5,064,921 |

FOISA exempt

Yes

Sensitivity analysis of approved cost QRA.



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.

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.

Edinburgh Trams

Lothian Buses

FOISA exempt

Yes

No

| Event | (F | Opp rating * | Open? | Treatment plan | Owner | Due date | Review Comments |
|---|---|-----------------|-------|---|---|------------|---|
| 1 Original foreca £400k. In-line management | ast value for incenthisation was e with performance it is tie view that the SDS incenthisation y justified, with £400k the worst | 16 | Open | tie PM to manage SDS KPI agreement to ensure that the maximum incentification paid out should be £300k | Damian Sharp | | Any savings expected to materialise in Period 6 |
| 3 Within the cu £947k for the and above the budgetted £ been taken to | rrent forecast figures is a cost of additional cost of Land Value over market rate when the project 162k of the benefit has already AFC leaving an opportunity of | .19 | Open | AS to lay out a timestable as to when land savings can be crystallised. In light of the stagnated property market it is unlikely that the additional E785k built into forecast or the duplication of cost in risk will be utilised. | Alastair Sim | | Being managed by A Sim. Still regarded as possible saving |
| to Transport S | o claw back £230k of costs directly Scotland on the back of the Scotrai | | Open | AS to lay out plant timetable as to how specifically these costs can be passed onto TS. | Alastair Sim | | SB and AS to meet with TS |
| justifying an a resource cost was approved that a potentia | mitted a paper to the TPB additional recharge of £1,571k is for the rest of the project. This in principle by TPB. SB identified at six figure sum could be reduced large cost. Action and target | | Open | SMcG to speak to David McKsy - thc | Stewart McGarrity with Alastair Richards | | TEL costs have be rescheduled and now provide up to Decembe 2011 at a reduced figure of £396k. |
| 7 TEL have ider additional £37 need to be sp ready for oper to who should the fact that ti | stified that it is likely that an 15k of tram marketing costs will event to get the tram geared up and ration. The debate is to be had as bare these costs accounting for hat this line was taken out of the et at final business case. | 6 | Open | SMcG to agree with David McKay who should take the marketing costs with a potential mechanism for capitalisation and amortisation for TEL of these costs over the useful economic life of the project. | Stewart McGarrity with Alastair Richards | | TEL believe these costs could b met from the Commis budget. To be discussed. |
| (T19.01.33) | s cost of £176k in budget | 6 | Open | Do not incur cost | Frank McFadden | | Any saving would be used to offset tie change for pole bases. |
| 13 View of Pican | dy Place Provisional Sums major provisional sums to be | 23 | Open | Picardy Place utility diversions provisional sums flet to be extremely high at £3m. SR guidance that this should be ballpark more like £1m. Dennis Murray action to give a best and measured view of how accurate this provisional sum is, and then to provide this to SB for review within the current month. £2m opportunity. | Frank McFadden with Dennis Murray | | £1.65m saving taken into account already against an onginal allowance of £2.65m |
| (Revised June | dy Place Provisional Sums tion alignment) and major ms to be taken | 21 | Open | Picardy Place infrace works provisional sums fet to be high at f.3m. SB guidance that this should be ballpark more like f.2m. Dennis Murray action to give a best and measured view of how accurate this provisional sum is, and then to provide this to SB for reserv within the current month. Erm opportunity. | Frank McFadden with Dennis Murray | | Current saving currently standing at £390k. |
| reconstruction | flows for full depth road n. If this is not necessary there wil | | Open | C Neil managing through development workshop | CN | | |
| 29 50 metre radiu | me time saving s curve at Gogar – at the moment will be embedded. Opportunity to lasted | 12 | Open | tie/BSC to examine possibilities | WB/BB | 30/03/2010 | P7 - BSC are redesigning with ballisted track. Saving will be in moving from lab to ballisted bu maintenace cost will increase P9 - design underway. P12 - BSC are issuing as Inflact diven change. However they believe this will increase costs (maintenance £30k v £6k) |
| Authority Pow | sh Central Procurement of Local ver instead of direct procurement of ig power by tie. | | Open | Liason with CEC procurement team to ensure Tram commissioning power is eligible using CEC rates | AR | 30/12/2009 | This option is being used. Overall saving still to be confirmed. |
| 32 Potential savi immunisation NR) | ng on £3m budget for NR (split 3 ways with tie, BSC and | | Open | BSC are making a case for doing no modifications to NR and are producing a contingency design if the "do nothing" approach is rejected (Option rejected by BSC following quantified assessment; BSC quantified assessment regires 14 off track circuit modifications using Feed End Track Rolays | CK | | BSC has instructed the initial design works (11/11/109) BSC has not yet finalised the contract for implementation of th immunisation solution |
| expansion joi | 1.43 sets of breathers and insta around structures throughout Cs proposal is to install 5 sets t of 36 sets. | 17 | Open | tie have received BSCs proposal on longitudinal expansion and expansion around structures. Technical meeting arranged in P3 to review tie's return comments on BSCs proposal | WERE | 30/04/2010 | BAM review has confirmed 5 set only can work however SDS disagree. WB to arrange workshop to progress final number. P7 - BSC not agreeing to change due to loss of profit in BB cetal works. P9 - Siemens installing to their design which removes need for 33 sets of breathers. Resubmitted design proposal with design calcs and this is being reviewed. Saving of approximately £12k x 30. Actus as any to be a set of the saving to be agreed in P10. P12 - SDS have accepted. Siemens' design proposal. He need to Issue change. |

Edinburgh Trams

Lothian Buses

FOISA exempt

Yes

| | | | | | | | □ No |
|----------------|--|----------|-------|--|-------|------------|--|
| Орр | Event | Орр | Open? | Treatment plan | Owner | Due date | Review Comments |
| umber 17 35 | The depth of excavation (for S21b and S21d and W8) could be reduced thereby providing a cost/time saving. To do this the design needs to be revisited. (BSC did additional SI in this area in summer 2008 which could be used to review designs) | rating * | Open | tie would need to instruct BSC to revisit design as BSC have indicated they will not do so unless instructed. | TC/CN | 30/06/2010 | TC and CN to manage P12 - being discussed between tie and BSC as part of programme mitigation P2 awaiting outputs of additions |
| 36 | £250k cabling programme planned for Hope St junction. IF BT can be convinced to leave in situ then this will represent a saving. | | Open | Meeting taking place with BT on 14 Oct to present proposal to BT | GB/CN | 31/06/2010 | Meeting still to happen but opportunity still five P9 - BT rejected proposal. G Barclay to meet BT P11 - GB raised again with BT and when Infraco start their works in this area the possibility of feaving as is will be re- examined. (Agreement needs be reached on on-street works) |
| 38 | Potential to make programme savings once | -1 | Open | BB and GB to review programme once received | GB/BB | | Programme still outstanding |
| 40 | systems programme has been received. Change rail section in all transtops (in the off | -1 | Open | Consortium issue in removing work from civils to | W8/88 | | Siemens have submitted |
| | street section) from grooved to S49 rail. This would provide a cost and productivity saving. This would progret the need for transition rails. Saving would be circa £250k. | | | systems as the need for a transition slab is removed. | | | proposal for S49 through tram stops. P9 - S49 now being installed throught ram stops. (productio saving) P12 - INTC issued to BSC whice includes trackform changes an tram halts at Edin Pk. |
| | Section 5Y (within 5B) - opportunity to remove ashphalt, which has been noted as a requirement by CEC planner in the section from east side of Edinburgh Plk tram halt to Edinburgh Plk vaduct approach, and continue the S49 on track ballast from the pedestrian crossing to the approach to Edinburgh Plk viaduct. (removes 100m of grooved rail with crossover and 2 transition slabs and improves productivity) | 1 | Open | This has been discussed with Stemens who will write to tile proposing these changes. | WB/BB | | Siemens progressing with desi change and ordering switches and crossings based on S49 P9 - opportunity accepted by Siemens and being carned out (Production saving) |
| 43 | Re-railing points - 15 no identified in ERs for the depot area. These could be removed with resultant saving in cost and productivity | 21 | Open | tie to decide if these are required. If not then BSC to be instructed. | W8/88 | | WB to discuss with Siemens P12 - Siemens agree with but not proprose change but this w need to be generated by tie. |
| 44 | Ground Improvement layer - adopt BAM's preliminary design for the floating slab developed to incorporate the noise and vibration measures. | | Open | tie, BAM and SDS to discuss | WB/BB | | BAM still working on design for ground improvement layer P1 - Outline design received for noise and vibration stab. No mention of ground improvement layer so tile have queried. |
| | Edinburgh Pk green track - soft ground through Edin Pk limits what can be installed. Opportunity is to change trackform to ballasted. Substantial cost saving as civils cost will be less. | 1 | Open | Edin Pk/CEC agreement required: | WB/BB | | WB to take forward P9 - tie saving to be calculated Proposal needs to be made to Edinburgh Park P12 - INTC issued to BSC detailing sections to change fir greentrack to ballast. Meeting arranged with NEP Lid to discuss changes. P1 - meeting expected with NE in Period 2 to discuss amende trackform. |
| | Eliminate soil nailing in preference for 1:2 batter. This would provide a mitigated cost increase | | Open | AR/SB/FMF have agreed to reduce clearances in the depot stabling area. BSC to confirm conditions can meet 1:2 slope. | AS | | |
| 47 | Advance Siemens commencement by 6-9 months as contract programme showing completion prior to handover to Siemens | 1 | Open | Programme team to be made aware of opportunity and attempt to negotiate with BSC | AS | | |

Edinburgh Trams

Lothian Buses

FOISA exempt

| | | | | | □No | | | |
|-----------|--|-----------------|------|---|-------|----------|---|--|
| number 17 | Event | Opp rating * | | Treatment plan | Owner | Due date | Review Comments | |
| 48 | Obtain agreement with CEC to adopt a different road construction methodology thereby saving time and money. | | Open | | CN | | | |
| 49 | Opportunity to amend to standard foundations in off-street section which would reduce cost. | 1 | Open | | CN | | | |
| 51 | Carry out a joint tender with BSC for future supplemental agreements in order to generate more competitive price | - 1 | Open | Future suppliemental agreements being discussed | CN/MP | | | |
| 52 | Selling of land which has been purchased but is no longer required | 1 | Open | | A Sim | | | |
| 53 | Recovery of costs from Siemens for recovery of stray current monitoring costs | 1 | Open | | CK/88 | | | |
| 54 | Opportunity to convert from direct fix to Rheda City C trackform at Approach to South Gyle Access Bridge (49m) East side of Bankhead Stop (33m) Eastem ramp at Edinburgh Park Station Bridge (72m) East Side of Castle Gogar Access Rd (679m) - instructed redessign Departure side of IPR stop (104m) Gyle Tramstop to south side of A8 (165m) - instructed redessign | 1 | Open | WB liaising with Siemens to agree proposals. Production saving to be made. | WB | | P9 - Approach to South Gyle Access Bridge (49m) - becoming Rheda City C from Direct Fix (Production saving) East side of Bankhead Stop (33m) - becoming Rheda City C Production saving) Eastern ramp at Edinburgh Park Station Bridge (72m) - becoming Rheda City C (Production saving) East Side of Castle Gogar Access Rd (679m) - From A8 to Depot this can become ballasted throughout (200m to be Rheda City C and 479m to be ballasted) Potential cost/production savings Departure side of IPR stop (104m) - becoming Rheda City C (Production saving) Gyle Tramstop to south side of A8 (165m) - convert from greentrack to ballasted, agreed with CEC planner. Potential | |
| 57 | The installation of transition welds rather than transition rails at structures would save circa £100k | | Open | tie would need to instruct BSC. | WB | | £350 per metresaving | |
| 58 | As we will have possession of the top half of the shuntline there is a possible opportunity to reduce the requirement for extensive temporary works to retain the NR embankment during the construction of the new embankment associated with the new tram structure. | | Ореп | Initial meetings have taken place regarding this and TCM/B will continue to pursue this option. | TCWB | | P1 - Scotrail and NR have agreed to this proposal in principle. Revised estimate for s21d on basis of the above from BSC received. P2 - to be revisited following | |

Progress

No.29 - proposal going ahead but agreement re costs need still outstanding

No.34 - tie still to issue change

No.35 - No progress in period, TC managing.

No.36 - GB progressing

No.40 - WB progressing

No.43 - tie would need to issue change

No.44 - WB progressing and included in Blair Anderson report

No.45 - WB and CN meeting NEP in Period 2 to progress

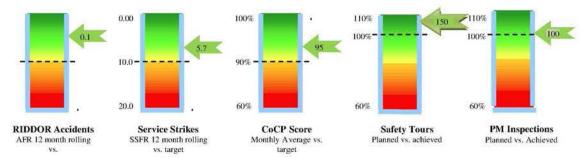
No.57 - WB progressing

No.58 - Scotrail and NR have agreed to this proposal in principle. Revised estimate for s21d on basis of the above from BSC received has reduced from £1.3m to £450k. Work progressing to reduce this further.

Health, safety, quality and environment

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

| Total | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damag e | EN V | RTA | МОР | AFR | SFF |
|-------------------|-------------|-----------|-------|--------|------------------------|-----------------------|---------|-----|-----|------|------|
| Period | 118,591 | 0 | 0 | 1 | 12 | 3 | 2 | 1 | 10 | 0.00 | 2.53 |
| 13 period rolling | 1,630,497 | 1 | 1 | 24 | 212 | 94 | 22 | 8 | 64 | 0.12 | 5.77 |



There have been no Reportable accidents during Period 2. The rolling 13 period AFR is 0.12 well below the target of 0.24 for the project. The BSC report on the RIDDOR incident which occurred on the Guided Busway during Period 1 has been reviewed by tie. 3 management and control failings have been identified and further remedial action has been identified from the tie review. These have been discussed with BSC and dates for the close out of actions have been agreed. A Senior Management meeting between tie and BSC will be held in June to discuss further.

During Period 2 there was a potentially serious incident with BSC/Grahams at Haymarket Yards. A dumper tipped during an unloading operation. The dumper was attempting to "ride over" a large stone when it tipped. The driver was secured to the seat by the seat belt and prevented from being thrown out and crushed. The driver voluntarily provided a D&A sample and tested positive for Cannabis. The driver was removed from site and discussions are underway with BSC regarding random testing and contractual requirements.

The frequency of service strikes for the project has improved marginally overall from the previous Period, however, the BSC service strike frequency has increased to some extent over the period. A major fibre optic service was damaged but not reported until discovered by the Utility Company. BSC have investigated and their subcontractor, Expanded, has removed the supervisor and operative from site for breach of safe digging practises and failure to report an incident.

Further to the Period 11 BSC Rail Interface systems audit, which found 4 major findings within the BSC system, the audit has been closed out satisfactorily. A copy of the audit and close out actions will be passed to Network rail at the next Network Rail interface meeting.

tie PM inspections continue to be carried out with the contractor. During Period 2, three of the 6 Safety Tours were carried out jointly between tie senior management BSC senior management.

FOISA exempt

Yes

Environment

During Period 2 **tie** carried out an Environmental audit on BSC at Tower Bridge. The audit found 3 findings 1 minor, 2 observations, however, in general, the audit was recorded some good standards from BSC's subcontractor, McKean. There has been no response from BSC regarding the **tie** environmental audit that was carried out during Period 12.

Meeting held with TCM, BSC and **tie**. Issues resolving BSC and their subcontractors' understanding of the advanced works now appear to have been resolved. BSC advised to deal with Invasive Species in line with the requirements detailed in their Invasive Species Management Plan and the standard guidelines in place.

BSC Environmental Management Plan Revision 4 was reviewed and commented on. Status remains at Level C (resubmit) as the Construction Site Drainage Plan supplied by BSC does not meet requirements. Still awaiting issue of updated Invasive Species Plan currently Level B, to include TCM guarantee information.

Complaints received regarding dust/debris airborne pollutant control near to the Ingliston Park and Ride area. BSC advised to ensure they have a robust system in place for dealing with dust and that they ensure all material loads leaving site are covered in line with the requirements of the CoCP.

Deliver a Safe Tram

| | | Data Checked | | | | | | | | |
|------------------------|------------------------|--------------|---------|-------|---------------------------------|-----------|-------------------|--|--|--|
| Section | Activity | DC | Hazards | ITP's | Design Variation / Change | As Builts | Asset Register | | | |
| Edinburgh Wanderers | Building Works | 0.5 | On Hold | 0.5 | 1 | 1 | N/A | | | |
| Tower Bridge Place | ITP's & related Docs | 0.5 | On Hold | 1 | 4 | 1 | N/A | | | |
| Edinburgh Park | Road Works | 0.5 | On Hold | 4 | 1 | 1 | N/A | | | |
| Gogar Depot | Drainage | - 1 | On Hold | 71 | 1 | 1 | N/A | | | |
| PD | Total (y) | 2.5 | 0 | 3.5 | 4 | 4 | 0 | | | |
| | Max Possible Total (y) | 4 | 0 | 4 | 4 | 4 | 0 | | | |
| Total | Percentage P1 | 36% | 69% | 93% | 77% | 71% | 50% | | | |
| | Percentage P2 | | 69% | 93% | 79% | 74% | 50% | | | |

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

Four inspections carried out since last period report – Edinburgh Wanderers, Tower Bridge Place, Edinburgh Park, and Gogar Depot. Period 2 inspections highlight significant improvements in the inspection results with IDC findings achieving a score of 63%, the first time since the inspections regime started that this element has scored over 50%.%. Overall assurance is slowly improving, but more work is to be done with BSC in this regard.

A template will be developed by the end of Period 3 allowing the compilation of evidence to provide assurance for the Design, Construction and subsequent Test and Commission of a Safety Critical Element of the Tram System, including Infrastructure. The Element Template will be tested on Princes St track design and installation initially then used to gain assurance at the depot prior to the relocation of the tram vehicle.

A tie Supervisors check sheet has been developed which will focus on monitoring the quality of contractors' construction. The Check sheet will be formally trialled by the HSQE team/Site Supervisors during period 3.

Inspection and Test Plan for Building Fixings formally issued by BSC to tie, currently being reviewed. Comments to be collated and ROR issued during period 3.

Meeting held with BSC on the 20th April 2010 to review all actions outstanding from the previous DaST inspections; encouraging commitment given, follow up meeting scheduled to take place 18th May 2010. Meetings will now be held on a monthly basis.

FOISA exempt

Yes

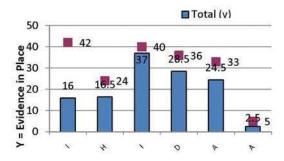
No

New Utility Handover Procedure; Work Site Release Procedure and associated forms promulgated to contractors currently working on the MUD contract, **tie** Site Supervisors and Project Managers (5th May 2010 and 19th May 2010). All relevant documentation now available on the HSQE webpage.

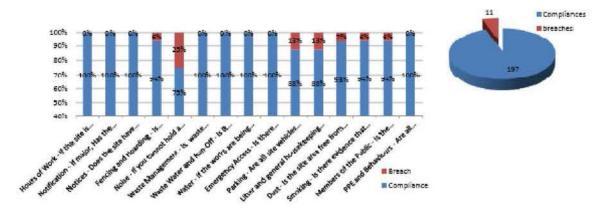
TQA/BSC/03/2010 ITP Audit at Gogar Depot carried out 11th May 2010. 5 minor findings/observations were identified. Actions agreed with BSC. Report formally issued to BSC week 4 /period 2.

Action to Be Taken

- Finalise tie Site Supervisors Check sheet and communicate to relevant staff.
- Run Princes Street wheel rail interface through the tie Safety Verification Scheme.
- S. Smith/C. Kerr to finish updating SVS procedures and add to HSQE website.
- Review and close out actions previously raised during DaST inspections – detail findings in period 3 report.
- tie to meet with BSC to discuss the progress of the Project Asset Register



Code of Construction Practice Period 2 compared to Period 1



Movement in Period

Compliance has remained constant over period at 95% for Period 1 to 2 There has been an improvement in compliance with the following areas:

- Fencing and Hoarding
- Litter and General Housekeeping

There has been a decrease / stable level of non compliance in the following areas:

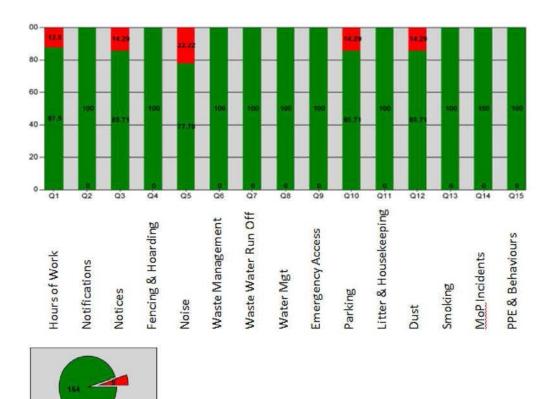
- Hours of work
- Notices
- Noise
- Parking
- Dust control

FOISA exempt

Yes

No

Period 2 Statistics



Actions

Number of Compliances
Number of Breaches

HSQE and Construction Director will discuss issues with Project Mangers and disseminate information to sites and highlight where additional measures are required. This month's targets will focus on notifications, noise and dust compliance. Period 3 compliance will specifically focus on the MUD contract.

FOISA exempt

Yes

7 Stakeholder and Communications

Media / Press Activity

Incoming media enquires for Period 2 has been relatively quiet in comparison to previous reported periods. Press coverage has been mainly proactive on our part where we notified local press of the removal of our traffic management in the city centre in order to give businesses and residents in the city some respite while negotiations on the dispute continue. The launch of the Leith Business Hub at the MacDonald Road Library also generated positive coverage locally and was unveiled by local businessman Sir Tom Farmer, who himself was born and raised in Leith.

The media team has been working several external articles for the City of Edinburgh Council's Outlook paper as well as an advertorial piece for the Chambers of Commerce on the economic benefits of the trams. A large article was also commissioned for Eurotransport Magazine as an overview of the project's progress which is due to be published early this summer.

Public Information Planning

Period 2 has been a busy four weeks with regards signage and branding on the project. Promotional signage and visuals have been placed at Ocean Terminal, and the Forth Ports Ferry Terminal to coincide with the launch of 2010 Cruise season.

In collaboration with key partners including City of Literature, DEMA and Festivals Edinburgh, banners have been designed for Princes Street to promote the city during the festivals. Banners are also due to be installed on the Overhead Line poles on Princes Street which advertise a selection of the upcoming festival events and such as Edinburgh Mela, This is My Edinburgh, alongside Edinburgh Trams banners.

Artwork at Starbucks has been updated outside their Haymarket Branch. Regular branding group meetings have also taken place throughout Period 2 in order to discuss further promotion of the project through gateway signage along the tram route.

Partner and Stakeholder Communications

During Period 2 notifications were issued for works in the following areas:

- Constitution Street Side Entry Manhole work
- Haymarket Junction area removal of traffic management
- Lindsay Road and Hawthornvale Closure of Hawthornvale
- Leith Harbour/Lindsay Road/Portland Row Water Outage

A number of school visits are being prepared at the moment for the coming four weeks at the request of the school in order to inform the pupils of why we are building the tram route in Edinburgh. Napier University also requested a presentation to Civil Engineering students in response to the high number of email requests for information over the past few months.

The May Photo update was completed and sent to the printers and features pictures of the Gogar Depot, bridge work at Tower Place and also pictures of the official opening of the tram vehicle on Princes Street. The update has been distributed electronically to internal staff and to a list of stakeholders as well as being posted on our website.

Communication continues on a regular basis between businesses and residents to keep them informed of the progress being made on the project and of any works due to commence in their area.

Transport Edinburgh Edinburgh Trams Lothian Buses

FOISA exempt

Yes

Meetings or presentations were given to the following groups during the previous four week period:

- Lothian Assessors
- Cockburn Association
- Napier University
- Association of Project Managers AGM

Website / Internet Communications

There has been an increase to 703 facebook 'fans' and 709 twitter followers. Links to new content on www.edinburghtrams.com posted on social media sites remains one of the most effective ways of connecting people with information quickly.

Social media activity remains an important tool for drawing users to the site. While social media links are a popular entry point for www.edinburghtrams.com there is a high incidence of users subsequently browsing information thereafter, typically checking local updates before leaving. These components are an essential part of the user journey into more detailed information on the project and have the greatest overall impact on site traffic. "Local Updates" on construction work, traffic management and the route alignment remain in first place for RSS alerts this period.

Logistics

Logistical support for businesses affected by our tram works have been scaled back during Period 2 from 4 to 3, due to the reduction in our on-street works. Members of the team have also helped out considerably in maintaining a presence on the tram vehicle while it is situated on Princes Street.

The logistics team have been primarily centred around Picardy Place, Broughton Street and the Haymarket area and have successfully assisted in the transference of nearly 9000 boxes, 1200 bags over 700 kegs during the four week period.

Freedom of Information Requests

Currently there are 4 FOI reviews outstanding and in the process of being compiled. No new requests have been filed.

Customer Service Activity

Correspondence has dropped by 40 contacts since last period, totalling 298 public enquiries. The main channels for incoming enquiries to the Customer Service team continue to be via email and phone calls, with Face to face meetings with businesses and stakeholders having now dropped significantly in light of the reduction of our worksites in the centre of Edinburgh.

Regarding the subject of enquires Information Requests still continue to log the overwhelming majority of incoming calls and emails with 259 of enquiries during Period 2 being recorded. A number of calls relating to Business Support, COCP Complaints and Employment on the project logged the highest interested after Information Requests, with 10, 9 and 8 contacts respectively. The remaining 12 enquiries were split between the following subjects, Complaints (4) Land and Property (2), Building fixings (2), Insurance Claims (1) and Positive Comments (3).

Customer Service Figures

a) Transport Scotland - Monthly Customer Service Report 26/04/2010 - 21/05/2010

| Item | Volume Month | Volume (Cumulative from 21/11/08) | Performance (Month) | Performance (Cumulative) | Target Performance |
|-------------------------------|-----------------|--|------------------------|-----------------------------|--|
| Telephone response | 198 | 4465 | 91 | 97 | 90% in 30 seconds |
| Telephone Same day resolution | 190 | 4294 | 96 | 96 | Info only |
| Email acknowledgement | 131 | 2639 | 100 | | 100% acknowledged within 24 hours |
| Email response | | | 100 | 99 | 90% resolution in 7 days |
| Email same day resolution | 122 | 2404 | 92 | 91 | Info only |
| Letter acknowledgement | 5 | 185 | 100 | | 100% acknowledgement within 24 hours |
| Letter response |] | | 100 | 95 | 100% resolution in 7 days |
| Total Enquiry Volumes | 334 | 7289 | | | |
| Website update | 47 | 1437 | 100 | 100 | Weekly |

b) Out of Standard/Work in Progress statement at month end 21 May 2010

| | | Volume of WIP @ m/end | Oldest date | Oldest Issue | Handled By |
|------------|---------|-----------------------------|-------------|---------------------------------|----------------------------|
| M/e 21 May | Email | 0 | N/A | N/A | N/A |
| 2010 | Letters | 1 | 21/05/2010 | Various questions on tram | Alastair Richards/Tom Wynn |
| | Calls | 0 | N/A | N/A | N/A |

<u>Monthly Notifications Performance 26/04/2010 to 21/05/2010 and Cumulative from 21 November 2008</u>

0 Major notifications

Edinburgh Trams

Lothian Buses

FOISA exempt

Yes

No

- 12 Minor notification $-\,9$ in standard and 3 out of standard. 0 Emergency notifications

| Notification Type | Work Site | | Notifications | % in Standard | |
|---|---------------------------------|---------------|---------------|------------------|--|
| 500 | Month | Notifications | 0 | | |
| Major works | | In Standard | N/A | N/A | |
| • | Cumulative | Notifications | 15 | | |
| | SUCHABITA SPECIAL ACTION OF THE | In Standard | 6 | 67 | |
| | Month | Notifications | 12 | | |
| Minor Works | | In Standard | 12 | 100 | |
| | Cumulative | Notifications | 182 | | |
| | | In Standard | 148 | 81 | |
| | Month | Notifications | 0 | | |
| Emergency | F03750405050 | In Standard | N/A | N/A | |
| ALC ALC | Cumulative | Notifications | 14 | | |
| | | In Standard | 14 | 100 | |



Deliver a Safe Tram

Company Report – Period 2

| | | Data Checked | | | | | | | | |
|---------------------|------------------------|--------------|---------|-------|--------------------------------|-----------|-------------------|--|--|--|
| Section | Activity | DC | Hazards | ITP's | Design Variation/ Change | As Builts | Asset Register | | | |
| Edinburgh Wanderers | Building Works | 0.5 | On Hold | 0.5 | 1 | 1 | N/A | | | |
| Tower Bridge Place | ITP's & related Docs | 0.5 | On Hold | 1 | 1 1 | - 4 | N/A | | | |
| Edinburgh Park | Road Works | 0.5 | On Hold | 1 | 1 | 1 | N/A | | | |
| Gogar Depot | Drainage | 1 | On Hold | 1 | 1 | 1 | N/A | | | |
| PD | Total (y) | 2.5 | 0 | 3.5 | 4 | 4 | 1 | | | |
| | Max Possible Total (y) | 4 | 0 | 4 | 4 | 4 | 0 | | | |
| Total | Percentage P1 | 36% | 69% | 93% | 77% | 71% | 50% | | | |
| | Percentage P2 | 38% | 69% | 93% | 79% | 74% | 50% | | | |

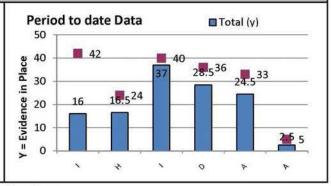
Key - Y = Evidence exists (1) N = No evidence exists (0) NA = Not applicable (-) P = Part evidence in place (0.5)

1.0 Deliver a Safe Tram Key Metrics

- Four inspections carried out since last period report Edinburgh Wanderers, Tower Bridge Place, Edinburgh
 Park, and Gogar Depot. Period 2 inspections highlight significant improvements in the inspection results with IDC
 findings achieving a score of 63%, the first time since the inspections regime started that this element has scored
 over 50%.
- A template will be developed by the end of Period 3 allowing the compilation of evidence to provide assurance for the Design, Construction and subsequent Test and Commission of a Safety Critical Element of the Tram System, including Infrastructure. The Element Template will be tested on Princes St track design and installation initially then used to gain assurance at the depot prior to the relocation of the tram vehicle.
- A tie Supervisors checksheet has been developed which will focus on monitoring the quality of contractors
 construction. The Checksheet picks an activity then looks at the competency of the individual involved, the
 availability of the correct specification, the completion of the Inspection and Test Plan and the appropriate
 supervision. The Checksheet will be formally trialed by the HSQE team/Site Supervisors during period 3.
- Inspection and Test Plan for Building Fixings formally issued by BSC to tie, currently being reviewed. Comments
 to be collated and ROR issued during period 3.
- Meeting held with BSC on the 20th April 2010 to review all actions outstanding from the previous DaST inspections; encouraging commitment given, follow up meeting scheduled to take place 18th May 2010. Meetings will now be held on a monthly basis.
- New Utility Handover Procedure; Work Site Release Procedure and associated forms promulgated to contractors currently working on the MUD contract, tie Site Supervisors and Project Managers (5th May 2010 and 19th May 2010). All relevant documentation now available on the HSQE webpage.
- TQA/BSC/03/2010 ITP Audit at Gogar Depot carried out 11th May 2010. 5 minor findings/observations were identified. Actions agreed with BSC. Report formally issued to BSC week 4/period 2.

1.1 Deliver a Safe Tram – Required Action

- Finalise tie Site Supervisors Checksheet and communicate to relevant staff.
- Run Princes Street wheel rail interface through the tie Safety Verification Scheme.
- S. Smith/C. Kerr to finish updating SVS procedures and add to HSQE website.
- Review and close out actions previously raised during DaST inspections – detail findings in period 3 report.
- tie to meet with BSC to discuss the progress of the Project Asset Register



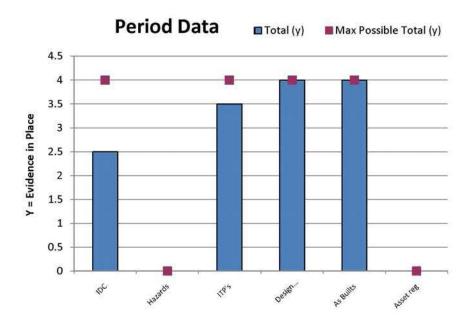
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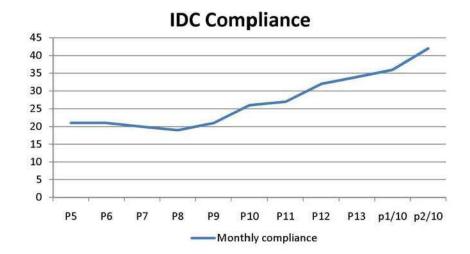
Deliver a Safe Tram Report



Deliver a Safe Tram

Company Report - Period 2







Company Report – Period 2 10/11

| Total | Total Hours | >3 day | Major | Injury | NM/Unsafe Condition | Service Damage | ENV | RTA | МОР | AFR | SFR |
|---------------------------|-------------|-----------|-------|--------|------------------------|-------------------|-----|-----|-----|------|------|
| Period | 118,591 | 0 | 0 | 1 | 12 | 3 | 2 | 1 | 10 | 0.00 | 2.53 |
| 13 period rolling | 1,630,497 | 1 | 1 | 24 | 212 | 94 | 22 | 8 | 64 | 0.12 | 5.7 |
| BSC | | | | | | | | | | | |
| Period | 81,395 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 6 | 0.00 | 1.23 |
| 13 period rolling | 967,351 | 0 | 1 | 15 | 78 | 31 | 10 | 2 | 32 | 0.10 | 3.20 |
| Other Tram including MUD2 | | | | | | | | | | | |
| Period | 18,749 | 0 | 0 | 0 | 8 | 2 | 2 | 1 | 2 | 0.00 | 10.6 |
| 13 period rolling | 160,173 | 1 | 0 | 0 | 77 | 21 | 10 | 2 | 8 | 0.62 | 13. |
| Carillion | | | | | | | | | | | |
| Period | 913 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.00 | 0.0 |
| 13 period rolling | 265,689 | 0 | 0 | 9 | 57 | 42 | 2 | 4 | 23 | 0.00 | 15. |



EXECUTIVE SUMMARY

There have been no Reportable accidents during Period 2. The rolling 13 period AFR is 0.12 well below the target of 0.24 for the project. The BSC report on the RIDDOR incident which occurred on the Guided Busway during Period 1 has been reviewed by **tie**. 3 management and control failings have been identified and further remedial action has been requested from the **tie** review. These have been discussed with BSC and dates for the close out of actions has been agreed. A Senior Management meeting between **tie** and BSC will be held in June to discuss further.

Potentially serious incident with BSC/Grahams at Haymarket. Dumper tipped during an unloading operation. The dumper was attempting to "ride over" a large stone when it tipped. The driver was secured to the seat by the seat belt and prevented from being thrown out and crushed. The driver voluntarily provided a D&A sample and tested positive for Cannabis. The driver was removed from site and discussions are underway regarding random testing and contractual requirements. The frequency of service strikes for the project has improved marginally overall from the previous Period, however, the BSC service strike frequency has increased to some extent over the period. A major fibre optic service was damaged but not reported until discovered by the Utility Company. BSC have investigated and their subcontractor, Expanded has removed two persons from site for breach of safe digging procedure and failure to report an incident.

Further to the Period 11 BSC Rail Interface systems audit, which found 4 major findings within the BSC system, the audit has been closed out satisfactorily. A copy of the audit and close out actions will be passed to Network rail at the next Network Rail interface meeting.

tie PM inspection continue to be carried out with the contractor. During Period 2, three of the 6 Safety Tours were carried out jointly between tie senior management BSC senior management.



Company Report - Period 2 10/11

| Project Running Totals | HS&E Tours | HS&E PM Inspection | |
|---------------------------|------------|-----------------------|--|
| Number planned | 4 | 11 | |
| Number achieved | 6 | 11 | |

HSQ&E KEY ACHIEVEMENTS

- Q & E team carried out training on the tie procedure to ensure that necessary documentation is in place to allow the statutory undertakers to accept completed utility diversions and allow completed MUDFA areas of project to be released to Infraco or CEC.
- Site Access arrangements with BSC working well. tie now carrying out BSC inductions to tie staff.
- Successful removal of work site traffic management in Haymarket.

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

- The **tie** review of the Reportable accident at the Guided Busway highlighted additional required actions to those identified within the BSC report. Theses consist of a) Review organisational control arrangements, i.e. supervisory provision and competency. b) Review how inspections and checks on the safety of lifting operations are covered within active monitoring arrangements. (Actual site practices v theory). c) Ensure incident review findings are appropriately shared with all BSC sub-contractors involved (Border Rail, Vital- Rail & Hydrex), so that immediate actions and identified management failures are understood and addressed. d) BSC to brief IP on return to work on incident findings and confirm that they re-assess the IP as competent to carry out machine controller operations. These actions have been formally communicated to BSC and requested to be complete by the end of May 2010.
- Potentially serious incident with BSC/Grahams at Haymarket. Dumper tipped during an unloading operation. The
 dumper was attempting to "ride over" a large stone when it tipped. The driver was secured to the seat by the seat belt
 and prevented from being thrown out and crushed. The driver voluntarily provided a D&A sample and tested positive
 for Cannabis. The driver was removed from site and discussions are underway regarding random testing and
 contractual requirements.
- Serious cable strike on a fibre optic cable adjacent to the Gogar roundabout. BSC and Expanded have carried out
 investigations into the event which has highlighted that there were adequate procedural controls in place but that
 these were not implemented by site teams. As a result of the investigation the site supervisor and operative have been
 removed from site.
- A Near Miss involving a Road Rail Vehicle was reported by BSC. The 2 of the vehicles wheels lifted from the rail
 during a lifting operation. Initial investigation has highlighted some deficiencies in the management of the
 maintenance regime of the vehicle. A full investigation is underway and more information will be available next period.
- Following the issues with pedestrian management at York Place and Lindsay Road a meeting was held with Ian Woodcock of CEC/SFC, and as a result a review of pedestrian management after installation is now being formally carried out by tie and the relevant Contractor. A recent review carried out after the commissioning of traffic management at Haymarket resulted in a small number of improvements.
- Tram Contractors Safety Alliance meeting No. 2 took place and discussed tie on call and AIIR review processes. The
 members discussed the vehicle edge protection system used on Graham's site and offered it up to the members as
 best industry practice.
- Works Section Plans trial ongoing at depot. A review of tie's input into the section plan process was carried out in Period 2. The trail has received favorable comments, however, BSC must formally issue tie with a 4 week look ahead to allow tie to identify the method statements and risk assessments it wishes to review.

| SIGNIFICANT RISKS FOR THE NEXT PERIOD | | | | | |
|--|---|--|--|--|--|
| RISK | ACTION | | | | |
| Piling operations close to a vulnerable cast iron Gas Main in Russell Road. Completion of Utility Works at Haymarket Completion of Utility Works at York Place New batch of NR possessions by Siemens will continue in Period 2. Continued ramping up of resources and contractors in depot area. Utility works at the Bus Gate, Edinburgh Park | Safe Systems in place by contractors, tie safety monitoring execution of works periodically. TMRP approval in place TMRP approval in place tie 3rd party rep and NR interface/possession meetings continuing Section plan trail ongoing as well as BSC interface meetings. Ensure BSC are aware of the SUC requirements for safety and quality including handover and site release. | | | | |



Company Report - Period 2 10/11

ENVIRONMENTAL SUMMARY

List any significant environmental events, initiatives, breaches etc

- EN/BSC/02/10 Tower Bridge audit carried out on the 11th May 2010. Report sent to BSC. 3 findings recorded. 1 minor, 2 observations.
- Meeting held with TCM, BSC and tie. Issues resolving BSC and their subcontractors' understanding of the
 advanced works now appear to have been resolved. BSC advised to deal with Invasive Species in line with the
 requirements detailed in their Invasive Species Management Plan and the standard guidelines in place.
- BSC Environmental Management Plan Revision 4 was reviewed and commented on. Status remains at Level C
 (resubmit) as the Construction Site Drainage Plan supplied by BSC does not meet requirements. Still awaiting
 issue of updated Invasive Species Plan currently Level B, to include TCM guarantee information.
- There has been no response from BSC regarding the tie environmental audit that was carried out during Period
 12
- Complaints received regarding dust/debris airborne pollutant control near to the Ingliston Park and Ride area. BSC advised to ensure they have a robust system in place for dealing with dust and that they ensure all material loads leaving site are covered in line with the requirements of the CoCP.

QUALITY SUMMARY

List any significant quality events, initiatives, breaches etc

- During Start up Meeting carried out with Land Engineering, tie's handover and area release procedure was issued. Start date for side entry manhole planned for week commencing 24/05/2010. Joint quality inspection planned.
- TQA/BSC/03/10 Gogar Tram Depot ITP audit carried out on the 11th May 2010. Report issued to BSC. 5 observations recorded.
- Briefings given to Site Supervisors and Project Managers regarding the implementation and use of the Utility Handover Procedure and Work Area Release Procedure. All relevant staff have now been briefed. Trials currently being carried out regarding the implementation of the Site Supervisors Checksheet.
- Review of Part C Documentation for MUD Works at the airport carried out by tie and Farrans. This will be issued to BAA for review and acceptance.
- 2 audits carried out Quality audit at Tram Depot relating to collation of ITP and supporting records 5
 observations made and closed out accordingly by BSC. Environmental audit carried out in Section 1 Tower
 Bridge –2 observations made and closed out by BSC. 1 minor finding relating to BSC site SHE inspections –
 awaiting close out
- Work on or Near the Tramway presentation by ETL for Scottish Water. First delivery from Edinburgh Trams
 aimed at preparing SW for the risks associated with working near Tramways. Utility companies will be required
 to prepare standard procedure for planned, routine and emergency works.
- For tenders, tie's quality requirements need to be included.

BEST PRACTICE

List any significant quality events, initiatives, breaches etc

- During audit EN/BSC/02/10, tie HSQE Advisor noted that BSC and McKean have a robust system in place for noise and vibration monitoring.
- After consultation with CEC, during the evening of 11/05/2010 a Static Load Test was carried out at the west abutment of Tower Bridge. Agreement was reached for no CoCP relaxation as this is unobtrusive with no excessive related noise.
- BSC have commenced a bespoke one day Cat and Genny and Cable Avoidance Training for 80 personnel over the whole Consortium. The BSC course has both theoretical and practical 'hands on' training

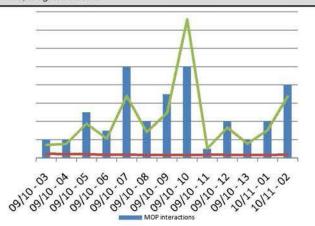


Company Report - Period 2 10/11

MEMBER OF PUBLIC INTERACTION SUMMARY

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

- There has been an increase in the number of MOP incidents this Period, The claims are unconnected ranging from complaints regarding noisy works to insurance claims for damaged paint work to a car. This information will be provided to contractors.
- Complaints about noise within the Ocean Terminal area were received when carrying out critical operations. The works could only be completed outwith core trading hours (8pm-8am)
- 2 MoP complaints received after jacket ripped by Heras fencing at South St Andrews Street. (Carillion Works)
- MoP complained about fumes caused by a contractor using a thermal lance while undertaking work for Clancy/Class One in Atholl Place, Edinburgh. Lancing stopped by the contractor.
- Caller concerned about signage at Lindsay Road opposite Hawthornvale.
- MoP drove over large pot hole sustaining damage to front passenger alloy wheel and front passenger tyre.
- Damage to bonnet of car was caused by grit blown off the back of a truck.



CDM Compliance

List any significant quality events, initiatives, breaches etc

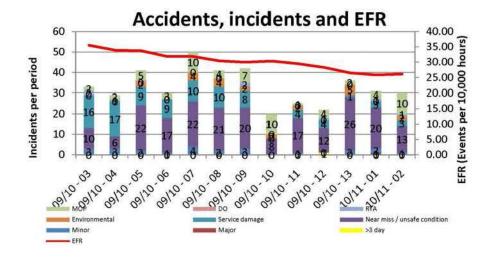
- Approved contractor list has been expanded to accommodate additional tender candidates. The list now extends to 41 companies.
- Pre-construction info packs have been prepared and issued for tenders:
 - Road 7 & 8 pre-construction information pack
 - South Gyle Access Bridge sewer diversion
- Meeting held with SRU to discuss CDM requirements of Murrayfield and ensure that SRU agent Jones Lang LaSalle are in a position to confirm tie's protocols and system are symbiotic to SRU's.
- BAA handover of documents for Burnside Road contract and BAA MUD. Utility diversions are nearing completion
 — tie have met with BAA and presented some information and to this date no major adverse comments received on documents submitted.
- A tracker of actions observed through the inspections has been produced which will help to demonstrate
 monitoring and continued improvement of the discharge of CDM. A number of CDM audits on the tie system
 have been carried out in Period 2.

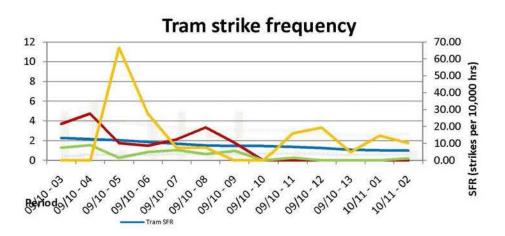


Company Report - Period 2 10/11

GRAPHS









Company Report - Period 2 10/11

APPENDIX A SIGNIFICANT ACCIDENT / INCIDENT

| AllR Ref: | AIIR01229 | Serious/Significant | Yes | Action taken by tie (if required): |
|-------------|-------------------------|---|---------------------|------------------------------------|
| Contr Ref: | | Description: | de (ii requirea). | |
| Project | Infraco | While excavating trench for kingpost subcontractor (LR Foundations) severed 4.0% | | |
| Location: | Section 5C A8 Underpass | — subcontractor (LB Foundations) severed 4 C&W fibre optic cables. Incident a review of was not reported to site team. C&W discovered location of fault at 2200hrs incident re on 23/4/10 and contacted BSC. C&W/BSC attended site on 24/4/10 to install will dissern temporary cabling. Works completed 2200hs on 24/4/10. | | |
| Date & Time | 23/4/10 @ 13:40 | | non-BSC contractors | |
| A/I type: | Service Damage | Action taken by Contractor: | | |
| tie PM: | A Scott | Attended site to assist with repair.BSC and Expanded carried out an investigation and report submitted to tie. Expanded commenced disciplinary | | |
| Contractor: | BSC | process against supervisor and operative for no strike. BSC reiterated to all personnel on site th | | |
| Sub Contr: | Expanded | reported at time. | | |

| AIIR Ref: | AIIR01241 | Serious/Significant | Yes | Action taken by tie (if required): |
|-------------|---|---|-------------------|---|
| Contr Ref: | | Description: | no (ii roquiros): | |
| Project | Infraco | Call 1: A dumper was reported as being on its side within the Haymarket Viaduct worksite. At time of call not known if anybody was injured. Call 2: Dumper was moving spoil around the site, initial reports indicate that the dumper tried to cross over a large stone this caused the dumper to tip | | tie PM and H&S informed. tie awaiting update. |
| Location: | Haymarket Viaduct Work Site | | | |
| Date & Time | Approx 12:40pm Wednesday 12 th May 2010 | onto its side Confirmed that nobody has been hurt | | |
| A/I type: | Near Miss/Unsafe Condition | Action taken by Contractor: | | |
| tie PM: | Tom Cotter | Grahams safety advisor is attending s | | |
| Contractor: | BSC | will report to BSC. The driver was sus driver was tested and on the 19 th May | | |
| Sub Contr: | Grahams | cannabis were in his system and he v | | |

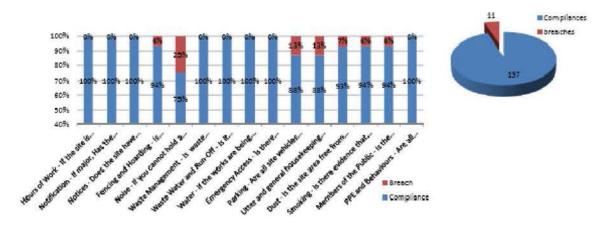
| AIIR Ref: | AIIR01252 | Serious/Significant | Yes | Action taken by tie (if required): |
|-------------|---|---|-------------------|--|
| Contr Ref: | | Description: | ue (ii requireu). | |
| Project | Infraco | During offloading of concrete the wheels of the vehicle lifted off the ground | | Tie to ensure that BSC carry out full investigation and that Bam Rail RRV is not used on site until full statutory compliance is assured. tie to ask BSC what management systems will be implemented to ensure that this scenario is not repeated. |
| Location: | Guided Busway | | | |
| Date & Time | Thursday 13 th May 2010, Approx 11:30am | | | |
| A/I type: | Near Miss/Unsafe Condition | Action taken by Contractor: | | |
| tie PM: | Tom Cotter | Works stopped immediately by the contractor. Full investigation being | | |
| Contractor: | BSC | carried out. By BSC. Machine qua not be used in future on this project | | |
| Sub Contr: | | attained | | |



Company Report - Period 2 10/11

APPENDIX B - INSPECTIONS

Period 1



Movement in Period

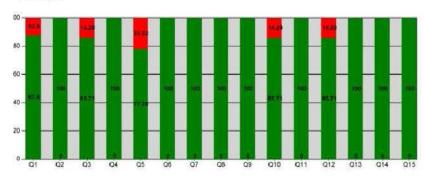
Compliance has remained constant over period at 95% for Period 1 to 2 There has been an improvement in compliance with the following areas:

- Fencing and Hoarding
- Litter and General Housekeeping

There has been a decrease / stable level of non compliance in the following areas:

- · Hours of work
- Notices
- Noise
- Parking
- Dust control

Period 2





tie Action

HSQE and Construction Director will discuss issues with Project Mangers and disseminate information to sites and highlight where additional measures are required. This month's targets will focus on notifications, noise and dust compliance. Period 3 compliance will specifically focus on the MUD contract.