



MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)
 Relating to the
Edinburgh Tram Network
 Contract No. A150

ALFRED McALPINE INFRASTRUCTURE SERVICES (AMIS)

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MUDFA AMIS PROJECT TEAM						Tie / Client	



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MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

Project Monthly Report – January 2007

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Distribution :

Tie Limited Project Management

Matthew Crosse, Susan Clark, Allan Hill (Chair), John Low, Jim Johnson, Martin Hutchinson, John McAloon and Tom Condie

AMIS Project Management

Andrew Malkin, Keith Gourlay, Graeme Strachan, Mike Beirne, Gerry Bannon, Stephen Clemenson, Stephen Crosbie, Mark Riley, Roddy Aves, Bill Jarvie, Martin Meeham, AMIS Board (Alan Robertson) & AMIS MUDFA Contract File (26 Copies in Total)

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- MUDFA, Non-MUDFA and INFRACO Demarcations - No single point ownership of definition and inter-dependencies to assist detailed planning and integration of AMIS MUDFA activities.
- Value Engineering and AMIS MUDFA incentivisation. AMIS MUDFA attended meeting on Tuesday 23rd January 2007 and key actions arising are to be addressed by **tie** Limited (Action Matthew Crosse & Susan Clark), and
- **tie** Limited responses to AMIS MUDFA correspondence (Action, **tie** team to jointly review contract correspondence issued to date).

In the reporting period the **tie** Limited, System Design Services (SDS) and AMIS MUDFA "Design and Technical Liaison" meetings have recommenced and actions are in hand to agree the way ahead in relation to the reviewing and close out of technical queries and securing of SUC approvals (Action, Jim Johnson).

The AMIS MUDFA Board held a meeting on Thursday 11th January 2007 @ 15.00 Hrs and held a further meeting with **tie** Limited senior management (Mr. Willie Gallagher and Mr. Matthew Crosse) on Monday 22nd January 2007. The AMIS MUDFA team remain committed to commencing trial site (Partial) construction works on Monday 19th March 2007 and a task force approach has been adopted to focus on the specific work site requirements (Time Remaining : **46** Calendar Days and **32** Working Days). AMIS MUDFA takes this opportunity to remind all parties concerned that media and public scrutiny will feature high on the agenda in all associated trial site operations (See communications and media sections).

2. Health and Safety, CDM, Quality and Environmental

In the reporting period **tie** Limited, Scot Wilson Scotland (SWS) and AMIS MUDFA QUENSH specialists continue to hold regular health and safety, environmental and quality meetings with specific focus on securing key information to support the development of construction related quality control procedures (See Appendix 1 and 5). AMIS MUDFA continues to develop procedures and protocols in best endeavour with no further dependencies on the requirements of Clauses 2.18, 2.19, 2.20, 2.21, 2.22, 2.23, 2.24 and 5.1. Furthermore the SDS HAZID LOG is now required with an increased sense of urgency to assist with the development of risk assessments and method statements (i.e. Trial site potentially has contaminated soil requiring the



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1. Executive Summary

Alfred McAlpine Infrastructure Services (AMIS) continues to work and support the overall project in relation to the utility design interface and construction services, and continues to develop and issue the Pre-Construction Services (PCS) Schedule 1 Deliverables as per the **tie** Limited approved PCS programme. The current focus is on the advanced construction works (i.e. Trial Site 19th March 2007) at Casino Square as per **tie** Limited request (Mr. Alasdair Slessor meeting of 8th January 2007 @ 10.30 Hrs).

In the January 2007 reporting period AMIS MUDFA has earned and achieved accumulative "Actual" progress of 63.1% against a "Planned" requirement of 64.3% (P3e Actual Progress at 62.31% - See Appendix 1, Sheet 2 of 2). The reported deviation of 1.2% at the monthly cut-off point of 26th January 2007 relates to a number of Schedule 1 Deliverables by **tie** Limited / SDS and these have now been disregarded in the ongoing development by AMIS MUDFA (See Section 9, Appendix 1 and 5). The AMIS MUDFA team continues to progress PCS Schedule 1 Deliverables which will be sustained throughout February and March 2007 and leading into the early construction services phase.

Consistently with the first, second and third AMIS MUDFA monthly project reports the main concerns still remain in relation to the current status of the detailed utility design outputs, programme baseline, SUC technical interfaces, work ordering and may be summarised as follows :

- Content and accuracy of Utility Detailed Design Outputs (AFI/AFC) – Exemplars reviewed independently and no feedback received to date (Action, Susan Clark).
- Resolution and close out of AMIS MUDFA Technical Queries (Action, Jim Johnson). Current status and way ahead to be jointly agreed.
- **tie** Limited approved SDS AFI/AFC Utility Design Outputs Schedule (Versions 9, 10 & 11) to support MUDFA Construction sequence and start dates. Approval of integration dates required (Action, John McAloon).
- **tie** Limited and Stakeholder Imposed Programme (Revision 03) – Work sequences and work order baseline requires approval (Action, Susan Clark – Approval at monthly meeting).



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selection and use of ductile iron as opposed to polyethylene piping systems – Subject of AMIS Technical Queries).

AMIS MUDFA will continue to develop control procedures throughout February 2007 with a view to completing the AMIS MUDFA Business Management System (BMS) in Mid-March 2007 for **tie** Limited approval (i.e. Code A or B).

AMIS MUDFA continues to collate expended hours for the purposes of Accident Frequency Rate (AFR) reporting and to the monthly cut-off point have expended a total of 7,424 Staff-Hours (Includes site subcontractors).

3. SDS Design Interface and Buildability Analysis

3.1 Overview

Tie Limited, SDS and AMIS MUDFA Utility Design and Technical liaison specialists have recommenced the weekly Design and Technical Liaison meetings in order to provide technical support and assistance in relation to C4 Utility Detailed Design Drawings as issued to the various Statutory Utilities Company's (SUC's). In the January 2007 reporting period there has been several "Detailed Utility Design Output" (Section 1A) meetings in order to review the details of SDS outputs, and AMIS MUDFA concerns still remain in relation to the lack of technical definition and detail required to support effective construction operations. AMIS MUDFA proposes that the trial site is used as a comparison of "Work Order" authorised and "As-Built / Final Account" value to highlight the importance of pre-planning, technical definition and detailing to support the Anticipated Final Account (AFA) and controls.

As per AMIS MUDFA previous monthly reports a "Step-Change" (i.e. SDS Design / AMIS Construction Contracts Gap Analysis) is urgently required and the issues associated with detailed utility design, process ownership, SUC intervention and approval, accelerated design outputs and construction programme all require joint resolution in order to comply with the **tie** Limited and Stakeholder Imposed Programme (Rev 03).

3.2 Design Issues and Resolution

As reported previously AMIS MUDFA are required under contract to highlight any concerns (References; AMIS/tie/letter/AM/Projects/007, 009, 013, 025, 027, 031, 032, 034, 035, 039 & 055) relating to technical objectives, project cost and timescale; and have formally communicated on a regular basis in order to seek further clarification and assistance (See Appendix 4). To date little feedback has been



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received and the majority of the key issues have not been addressed in full by the **tie** Limited Utilities Project Management team (Action required).

4. Operations Management

4.1 Overview

The AMIS MUDFA Operations team continues reviewing the SDS preliminary utility design drawings (and C4's for Sections 1A and 6) as part of the construction pre-planning and "Buildability" analysis, and have concentrated this month on the specific needs of early construction works as per the **tie** Limited & Stakeholder Imposed Programme (Rev 03). AMIS MUDFA continues with specialists covering Power Systems, Telecommunications, Gas and Water utilities in support of SDS and SUC technical interface and review meetings (Note – Deviation from PCS Services).

Also within the January 2007 reporting period a number of AMIS specialists have attended "Roads Re-Instatement" technical review meetings with **tie** Limited (M. Alasdair Slessor) and CEC, and a number of contract compliance activities have been carried out in relation to the quality control and verification activities associated with roads reinstatement.

4.2 Traffic Management

Tie Limited and AMIS MUDFA have held a number of Traffic Management meetings within the January 2007 reporting period and have agreed the AMIS Traffic Management Strategic Plan and "Hot-Spot" areas for detailed development through January to March 2007 (Action; Roddy Aves and Keith Rimmer).

The traffic management discussions and plans developed to date will be developed and expanded to assist with the modelling process by others and to create a detailed overview of the City of Edinburgh roads team. Further consideration will be given to ongoing major works within the City during February/March 2007.

5. Communications and Stakeholders

5.1 Overview

Within the January 2007 reporting period AMIS MUDFA has attended several **tie** Limited communication meetings and awaits feedback and comments on the AMIS MUDFA developed Communications Plan (Revision 01, PCS Schedule 1 Deliverable). Further detail and newsletter quantification is still required and AMIS



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MUDFA has completed the information packs to support construction site notifications (i.e. 19th March 2007) and has energised mass publication.

6. Construction Planning and Project Controls

6.1 Overview

AMIS MUDFA has now completed the first pass of the P3e Detailed Construction Programme covering all 125 work sites and in accordance with the **tie** Limited and Stakeholder Imposed Programme (Revision 03) as per the request of Mr. Alasdair Slessor (Revision 03 required **tie** Limited approval).

As reported previously the detailed planning development at Level 4 is ongoing and subject to the receipt of detailed utility design outputs at IFC/AFC issue (Refer to 3.2 previous and Executive Summary), and will be fully resourced during February/March 2007 as the construction detail is further developed by the AMIS MUDFA Operations team.

7. Contract and Commercial Management

7.1 General

Tie Limited and AMIS MUDFA have held commercial review meetings within the January 2007 reporting period and discussed the revised Anticipated Final Account (AFA) at Revision 02 (Issued 14th December 2006). The AMIS MUDFA 2nd Pass Anticipated Final Account (AFA) remains at £68,195,226.00; and AMIS awaits the issue of further SDS IFC / AFC drawings in order to further develop and refine the current AFA position.

7.2 Application for Payment

AMIS MUDFA received the 1st PCS services payment on Friday 22nd December 2006 as per the tendering and contract award agreements. The actual sum received was approximately £25,000 short of the approved application attributable to defect retention and **tie** Limited are respectfully requested to address the shortfall within the January 2007 application currently being prepared and issued.

7.3 Risk Management

In the January 2007 reporting period the AMIS MUDFA "Risk Management and Mitigation Plan" was updated again and re-submitted to the **tie** Utility Project Management team. The AMIS MUDFA risk and mitigation plan still shows an unusual amount of "RED RISKS" at this stage of the project and detailed discussions are



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required to address key concerns (See Section 10 and Appendix 2 – Meeting action still outstanding).

AMIS MUDFA at time of writing still awaits receipt of the **tie** Limited Risk Register and Risk Assumption listings for review and integration of respective risk systems (Reference; AMIS/ tie/letter/AM/ Projects/006 dated 27th October 2006).

7.4 Work Order Authorisation

AMIS MUDFA still awaits detailed proposals from **tie** Limited in relation to the content and processing of Work Order Authorisations (WOA's) and the various co-ordination requirements associated with obtaining deliverables from SDS Design and SUC's. **tie** Limited has yet to issue correspondence on this subject and AMIS MUDFA awaits receipt of WOA information in January 2007 as per December 2006 correspondence to support March 2007 construction.

7.5 Commercial Change Control

There has been a number of **tie** Limited and SDS change requests registered within the December 2006 / January 2007 reporting period and these have been logged within the AMIS MUDFA Change Control Register for ongoing commercial review and agreement (See Appendix 3). In addition, **tie** Limited and AMIS MUDFA has held technical and commercial reviews in relation to CCTV sewer works and anticipate agreement following the completion of actions by AMIS MUDFA in January 2007 (Action, Keith Gourlay). AMIS MUDFA still awaits comment and feedback on the proposed AMIS MUDFA Change Control Register submitted under cover of correspondence AMIS/tie/Letter/AM/Projects/047 dated 4th December 2006. Finally, AMIS MUDFA has now completed the emergency works associated with the terminal building at Ingliston Car Park and will include all costs within the January 2007 application.

8. Pre-Construction Services : Schedule 1 Contract Deliverables

AMIS MUDFA as per previous monthly reports has included within Appendix 1 a copy of the Pre-Construction Services "S" Curve (Includes P3e Plan, Sheet 2 of 2) in order to report on progress and track the ongoing development status of MUDFA PCS Schedule 1 Deliverables. At the report cut-off date of 26th January 2007 the following PCS Schedule 1 Deliverables were reported as being behind programme, namely :

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tie Utilities Project Management	2.18, 2.19, 2.20, 2.21, 2.22, 2.23, 2.24 & 5.1
AMIS MUDFA Project Management	2.14 & 2.25

The overall AMIS MUDFA accumulative planning and progress status for the reporting period of January 2007 is summarised within the following tabulation and illustrated graphically within Appendix 1 (Pages 1 and 2) :

Progress Criteria	% Monthly	% Accumulative
Planned	27.2	64.3
Actual	30.1	63.1
Deviations	(2.9)	1.2

9. Contract Correspondence

AMIS MUDFA continues to seek guidance and clarity on many contract requirements and although acknowledges receipt of **tie** Limited correspondence of 12th and 13th December 2006 still requires detailed support and assistance on all key and major issues. AMIS MUDFA proposes a joint "Contract Review" of all contract requirements and correspondence issued and raised to date in order to deal with existing matters and to offset future commercial claims and escalating matters (Action, Susan Clark, martin Hutchinson, Andrew Malkin and Keith Gourlay).

However AMIS MUDFA wishes to leave on record within this monthly report that the key detailed utility design, integrated programme and construction interface issues relating to technical objective, cost and timescale have yet to be addressed in detail and to the satisfaction of AMIS MUDFA and AMIS Board. This will be subject to discussion at the monthly progress meeting currently scheduled for Thursday 1st February 2007 and attention is drawn to Appendix 4 regarding current status of contract correspondence.

Appendices :

1. Pre-Construction Services : Overall Progress "S" Curve (2 Pages)
2. AMIS MUDFA Risk Register and Mitigation Action Plan (2 Pages)
3. AMIS MUDFA Change Control Register (1 Page)
4. **tie** Limited / AMIS MUDFA Contract Correspondence Matrix and Status (1 Page)
5. Pre-Construction Services : Deliverables & Progress Matrix (2 Pages)



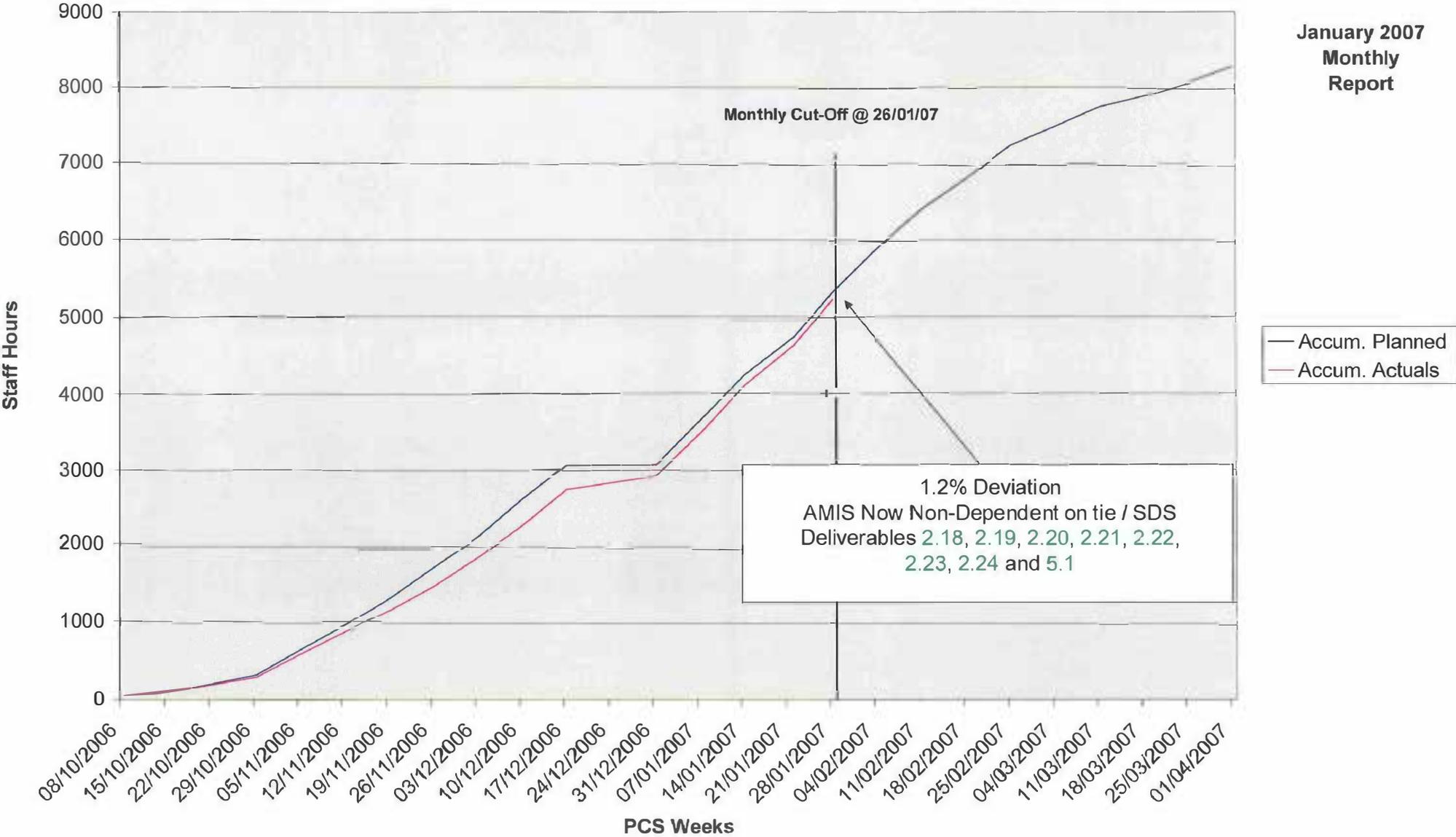
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Appendix 1 : Pre-Construction Services : Overall Progress "S" Curve

PCS SERVICES : OVERALL PROGRESS

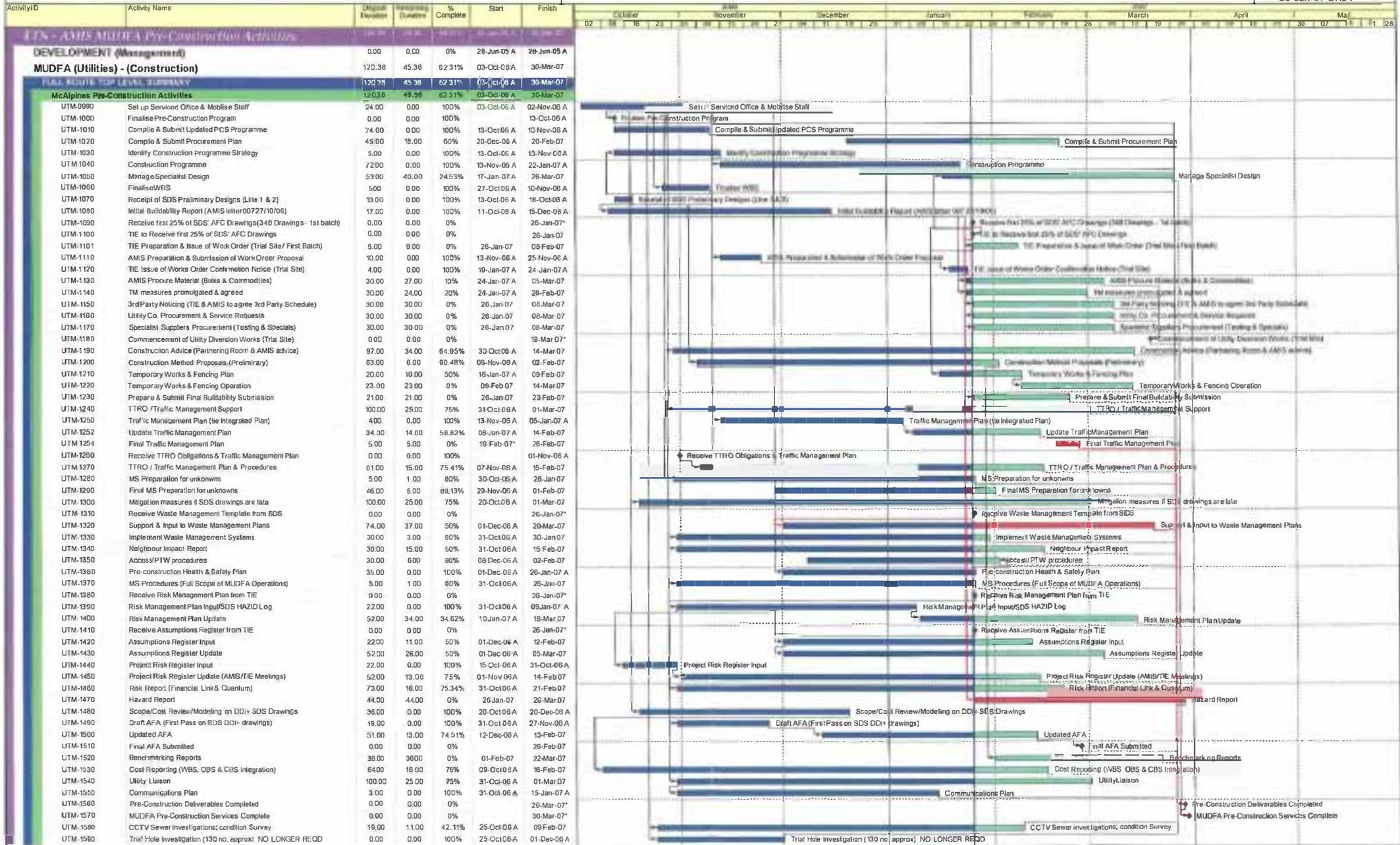


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Trams for Edinburgh - Multi-Utility Diversion

AMIS MUDFA Pre-Construction Activities

30-Jan-07 07:54



Remaining Level of Effort Actual Work Critical Remaining Work
 Actual Level of Effort Remaining Work Milestone

Data Date: 26-Jan-07

Project: ETN Plan 40-01/Jan07-2, Layout: tie ETN Plan (AMIS MUDFA PCS), TASK filter: All Activities

Sheet 1 of 1

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MUDFA Risk Matrix - Likelihood, Consequences & Ranking										Risk Mitigation Action Planning					
Ref.	Risk	Risk Heading	Consequence Definitions	Risk Likelihood	Risk Consequence	Stake Ranking	Trend	Risk Driver	Actionee	Outline Mitigation Action Plan	Required By	Interaction and Dependencies	Compliance	Non Compliance / Risk Analysed	
1	Project Management	Availability of the Project Risk Register	R, F, D, H	6	20	120	Up	tie	A. Sessor	Issue documentation & convene risk workshop(s)					
		Availability of the Assumptions Register	R, F, D, H	6	20	120	Up	tie	A. Sessor	Issue documentation & convene workshop(s)					
		Validity of AMIS generated Stakeholder Imposed Programme	R, F, D, H	6	20	120	Stable	tie	A. Sessor	Stakeholder management					
		Stability of SDS Utility Design and AMIS Construction Programme and interface criteria / resolution	R, F, D, H	10	20	200	Stable	tie	A. Sessor	Visibility and management of deliverables by clearly defined deliverables and programme					
		Failure of tie / AMIS to agree a strategy for step-change in improved Contract Performance	R, F, D, H	10	20	200	Up	tie	S. Clark / A. Malkin	Identify and deliver recovery (left shift) strategy, status quo is not an option					
		Impact of SDS / tie on AFA submission	R, F, D, H	5	20	100	Stable	tie	S. Clark / A. Dolan	Design detail and definition and baseline programme to be agreed					
		Failure of tie / AMIS to agree alternative Value Engineering Incentivisation Mechanism	R, F, D, H	5	20	100	Stable	tie	S. Clark / A. Malkin	Identify and deliver recovery (left shift) strategy, status quo is not an option					
		Organisation & Management Structure	Failure to publish agreed organisation charts, roles, responsibilities and accountabilities; tie, SDS and AMIS	R, F, D, H	5	20	100	Up	tie	S. Clark / A. Malkin / A. Dolan	Issue appropriate documentation				
		Failure to publish powers and delegated authority listings to align AMIS interaction	R, F, D, H	5	20	100	Up	tie	S. Clark	Issue appropriate documentation					
		Continuity of tie staff resources	R, F, D, H	10	20	200	Up	tie	S. Clark	Succession Planning					
2	Design Outputs	Design Accuracy	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Visibility and management of deliverables by clearly defined deliverables and programme					
		Availability of tie Utility specialists to approve SDS design to match AMIS AFC requirements	R, F, D, H	5	20	100	Stable	tie	S. Clark	Resource planning / skills analysis					
		Availability of Specifications	R, F, D, H	5	20	100	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Utility isolation criteria	R, F, D, H	5	20	100	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Bill of Materials and Long Lead Items	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Stability of SDS Design Programme approved by tie	R, F, D, H	10	20	200	Stable	tie	S. Clark / A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Value Engineering opportunity diminishing	R, F, D, H	10	20	200	Stable	tie	S. Clark / A. Dolan	Identify and deliver recovery (left shift) strategy, status quo is not an option					
		Detail to Support Productive Design	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Delivery of AFC Designs meet Contract milestones / longstop date	R, F, D, H	10	20	200	Stable	tie	S. Clark / A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Utility Companies reluctance / refusal to approve SDS Design	R, F, D, H	10	20	200	Up	tie	A. Dolan	Stakeholder management and escalation process					
		Impact of Utility Company approvals on Contract milestones / longstop date	R, F, D, H	10	20	200	Up	tie	S. Clark	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		SDS Failure to identify underground obstructions / obstacles	R, F, D, H	10	20	200	Up	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Infraco impact on Diversions, detail and extent	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Depth of slab under Infraco Contract	R, F, D, H	10	20	200	Up	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Foundations for OHLE	R, F, D, H	10	20	200	Up	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
3	Statutory Utility Companies	Imposed and/or Requested Betterment, lead pipe and meter	R, F, D, H	5	20	120	Stable	tie	S. Clark	Stakeholder management and escalation process					
		Commercial and Technical Management of Utility activities	R, F, D, H	5	20	120	Stable	tie / AMIS	S. Clark	Stakeholder management and escalation process					
		Availability of utility specialists to support Stakeholder Imposed Programme, Rev 01	R, F, D, H	10	20	200	Up	tie	S. Clark	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Disputed allocation of cost between parties	R, F, D, H	5	20	120	Stable	tie	S. Clark	Stakeholder management and escalation process					
4	Design Development	Reluctance to carry out Trial Holes / Investigations (tie / CEC)	R, F, D, H	5	20	120	Up	tie	S. Clark	Reduce / remove all trial holes against design information					
		Impact of SDS Design critical Trial Holes (Design Basis)	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Reduce / remove all trial holes against design information					
		Impact on design programme as a consequence of design validation	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
5	Stakeholder Interfaces, Requirements and Constraints	Impact of Utility Company Non-MUDFA Works & Services	R, F, D, H	10	5	50	Stable	tie / AMIS	S. Clark	Stakeholder management and escalation process					
		Access / Traffic Management constraints & Restrictions	R, F, D, H	10	5	50	Stable	tie	S. Clark	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Excessive political pressures and Operational Restrictions	R, F, D, H	10	5	50	Stable	tie	S. Clark	Stakeholder management and escalation process					
		Utility company claims for apparatus damage by MUDFA / AMIS	R, F, D, H	5	5	25	Stable	tie / AMIS	S. Clark / A. Malkin	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Late or Delayed TTRO Approvals by CEC	R, F, D, H	10	20	200	Stable	tie	S. Clark	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Impact of Utility Company emergency / ongoing CAPEX / OPEX Works	R, F, D, H	10	5	50	Up	tie	S. Clark	Stakeholder management and escalation process					
		Major Utility Company Diversion Work (275kV) and MUDFA interface	R, F, D, H	10	20	200	Up	AMIS	S. Clark / A. Malkin	Stakeholder management and escalation process					
		CEC Road Reinstatement & Betterment with LOD	R, F, D, H	5	20	100	Stable	tie / AMIS	S. Clark / A. Malkin	Stakeholder management					
		Non-MUDFA Works definition and Programme	R, F, D, H	10	5	50	Stable	tie	S. Clark / A. Dolan	Stakeholder management					
		Infraco early works dependencies for MUDFA consideration	R, F, D, H	10	5	50	Stable	tie	S. Clark / A. Dolan	Demarcation schedule & delivery strategy					
6	Asset Information	Utility Company upgrade costs	R, F, D, H	3	20	60	Stable	tie	S. Clark	Stakeholder management					
		Rework / Additional Work resulting from poor utility condition not identified on IFC / AFC Design	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Unknown location and status of mains and branch sewers; Condition Surveys	R, F, D, H	10	20	200	Stable	tie	A. Dolan	Surveys					
7	Supply Chain	Late or Non Identification of Long Lead Items, Equipment and Apparatus	R, F, D, H	10	20	200	Stable	tie / AMIS	A. Dolan	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Availability of Utility Company resources to support MUDFA	R, F, D, H	10	20	200	Stable	tie	S. Clark	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
		Failure to secure capacity	R, F, D, H	10	20	200	Stable	tie / AMIS	S. Clark / A. Malkin	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs					
8	Defined Scope of Works	Additional work development as a consequence of Non MUDFA Works	R, F, D, H	10	5	50	Stable	tie	S. Clark	Demarcation schedule & delivery strategy					
		Additional work resulting from tie enabling works	R, F, D, H	10	5	50	Stable	tie	S. Clark	Demarcation schedule & delivery strategy					
		Additional work resulting from Infraco support / enabling	R, F, D, H	10	5	50	Stable	tie	S. Clark	Demarcation schedule & delivery strategy					
		Emerging works definition and forward planning - Car park, EARL	R, F, D, H	10	5	50	Stable	tie	S. Clark	Demarcation schedule & delivery strategy					
		Depth of Diversions @ Tram Stations	R, F, D, H	10	5	50	Stable	tie / AMIS	S. Clark	Demarcation schedule & delivery strategy					

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MUDFA Risk Matrix - Likelihood, Consequences & Ranking										Risk Mitigation Action Planning				
Ref.	Risk	Risk Heading	Consequence Definitions	Risk Likelihood	Risk Consequence	Risk Ranking	Trend	RiskOwner	Actionee	Outline Mitigation Action Plan	Required By	Interaction and Dependencies	Compliance	Non Compliance / Risk Analysed
9	CEC	Major events, presently unknown & Impact on programme / scope of works Change in the Council Administration at the local elections	R, F, D, H R, F, D, H	10 6	8 8	180 120	Up Stable	tie tie	S. Clark S. Clark	Integrated risk management Stakeholder management				
10	ThirdParty Stakeholders	Domestic / Commercial Claims for Disruption of Services, Loss of Income and the like Schedule 'B' Requirements Media Impact SDS condition survey accuracy and availability Tram Protestors	R, F, D, H R, F, D, H R, F, D, H R, F, D, H R, F, D, H	6 10 10 10 6	20 20 20 20 20	120 180 180 180 120	Stable Stable Stable Stable Stable	tie / AMIS tie tie / AMIS tie tie / AMIS	S. Clark S. Clark S. Clark S. Clark / A. Dolan S. Clark / A. Malkin	Stakeholder management Stakeholder management Stakeholder management Stakeholder management Stakeholder management				
11	Programme Integrity	Accelerated Infraco Programme & Impact on MUDFA Impact of optional tie business case(s) Stability of SDS Design Programme Veracity of SDS Design Programme, include full scope of works to complete (design legacy) tie approval of Stakeholder Imposed Programme subject to further and ongoing change tie recognition of Tender / Stakeholder Imposed Programme change and work content, sequencing and commercial implications Delayed Infraco Programme & impact on MUDFA Prolongation through consequences of tie risk events Prolongation through consequences of AMIS risk events Compatibility of Infraco Programme with MUDFA	R, F, D, H R, F, D, H	8 8 10 10 10 10 6 10 10 6	20 20 20 20 20 20 20 20 20	120 120 120 120 120 120 120 120 120	Stable Stable Stable Stable Stable Stable Stable Stable Stable	tie tie tie tie tie tie tie tie AMIS	S. Clark S. Clark S. Clark / A. Dolan S. Clark S. Clark S. Clark S. Clark S. Clark A. Malkin S. Clark	Demarcation schedule & delivery strategy Stakeholder management Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Stakeholder management Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs				
12	Engineering Standards	Change in the requirements set by Utility Companies Consistency between SUC Engineering Standards and SDS outputs as approved by tie Robust and concise definition of interface between asset instu and MUDFA installed apparatus SDS technical application of Engineering standards to support AMIS supply chain management SDS technical application of Engineering standards to support AMIS delivery Unreasonable application adopted by Utility Companies	R, F, D, H R, F, D, H	6 6 10 10 10 6	20 20 20 20 20 20	120 120 120 120 120 120	Stable Stable Stable Stable Stable Stable	tie tie tie tie tie tie	S. Clark S. Clark / A. Dolan S. Clark / A. Dolan S. Clark / A. Dolan S. Clark / A. Dolan S. Clark / A. Dolan	Stakeholder management Stakeholder management Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs				
13	Resource Planning / Availability	Resource profiling assessed in CARP subject to change 'tail end loading' as a consequence of tie risk item(s) Resource profiling assessed in CARP subject to change 'tail end loading' as a consequence of AMIS risk item(s) Balance shift between DLO and Sub-Contractors through tie risk event Programme change and impact on plant, machinery, stocked materials, supervision, traffic management capability and resources generally Balance shift between DLO and Sub-Contractors through AMIS risk event	R, F, D, H R, F, D, H R, F, D, H R, F, D, H R, F, D, H	10 6 10 10 10	20 5 20 20 20	120 120 120 120 120	Stable Stable Stable Stable Stable	tie AMIS tie tie AMIS	S. Clark A. Malkin S. Clark S. Clark A. Malkin	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs				
14	Value Management	Time constraints lead to inefficient and unworkable design solutions Time constraints result in lost VE opportunities and unworkable Value Engineering Incentive mechanism under the MUDFA Contract Loss of focus and drive on adding value to the design process and the management of the design outputs between contracted parties External factors influence design solutions	R, F, D, H R, F, D, H R, F, D, H R, F, D, H	10 10 10 10	20 20 20 20	120 120 120 120	Stable Stable Stable Stable	tie tie tie tie	A. Dolan S. Clark / A. Dolan S. Clark / A. Malkin / A. Dolan S. Clark	Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Design detail and definition and baseline programme to be agreed that meets the MUDFA outputs Partnering workshop joint objectives etc Stakeholder Management				
15	Health & Safety	Death or injury of MUDFA employee and/or Subcontractors tie / AMIS to validate HSE operational requirements during PCS and CS Death or injury of tie employee and/or agent Death or injury to a member of the public	R, F, D, H R, F, D, H R, F, D, H R, F, D, H	3 3 3 3	50 50 50 50	150 150 150 150	Stable Stable Stable Stable	tie / AMIS tie / AMIS tie / AMIS tie / AMIS	S. Clark / A. Malkin S. Clark / A. Malkin S. Clark / A. Malkin S. Clark / A. Malkin	Application of and strict adherence to AMIS and tie policies and procedures Application of and strict adherence to AMIS and tie policies and procedures Application of and strict adherence to AMIS and tie policies and procedures Application of and strict adherence to AMIS and tie policies and procedures				
16	Environmental and pollution	Major environmental incident Environmental incident tie / AMIS to validate HSE operational requirements during PCS and CS Prohibition Notices	R, F, D, H R, F, D, H R, F, D, H R, F, D, H	3 3 3 3	50 50 50 50	150 150 150 150	Stable Stable Stable Stable	AMIS AMIS tie / AMIS AMIS	A. Malkin A. Malkin S. Clark / A. Malkin S. Clark	Application of and strict adherence to AMIS and tie policies and procedures Application of and strict adherence to AMIS and tie policies and procedures Application of and strict adherence to AMIS and tie policies and procedures Application of and strict adherence to AMIS and tie policies and procedures				
17	Legislation; known and unknown	Amendment to existing Tram legislation Transport Scotland Act General legislation	R, F, D, H R, F, D, H R, F, D, H	3 10 6	20 20 5	120 120 120	Stable Stable Stable	tie tie tie	S. Clark S. Clark S. Clark	Stakeholder Management Stakeholder Management Stakeholder Management				
18	Condition Surveys of adjacent properties	Dispute with stakeholders on impact of MUDFA Works Availability of Condition Surveys (SDS output) Dispute in content of Condition Surveys Failure to complete timely surveys	R, F, D, H R, F, D, H R, F, D, H R, F, D, H	6 6 6 3	20 20 20 60	120 120 120 60	Stable Stable Stable Stable	tie tie tie tie	S. Clark S. Clark S. Clark S. Clark	Robust condition surveys Action Plan to deliver on agreed timescales against pre-determined deliverables Robust condition surveys Action Plan to deliver on agreed timescales against pre-determined deliverables				
19	Pre-Construction Services	Internal Governance not solution driven Delay in agreement of Contract Deliverables Baseline performance levels not agreed Responsiveness of Information Flow, catalogued in correspondence Approval Process Misaligned Priorities	R, F, D, H R, F, D, H	6 3 3 10 6 6	20 5 5 20 20 20	120 120 120 120 120 120	Stable Stable Stable Stable Stable Stable	tie tie / AMIS tie / AMIS tie tie tie / AMIS	S. Clark S. Clark / A. Malkin S. Clark / A. Malkin S. Clark S. Clark S. Clark / A. Malkin	Common platform and shared objectives Common platform and shared objectives				

Total Number of Risk Headings	19
Total Number of Individual Risk Events	106

Total Number of Red Risks	46	43%
Total Number of Amber Risks	54	51%
Total Number of Green Risks	6	6%
	106	100%

Total Number of Stable Risks	88	83%
Total Number of Increasing Risks	18	17%
Total Number of Diminishing Risks	0	0%
	106	100%

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Infrastructure Services



MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

Description of PCS Schedule 1 Document/Plan Deliverables	Index Drafted	Document Drafted	Tie Reviewed Cat A,B,C	Tie Approved Cat A,B
2.38 Construction Stage Cost Reporting System	Yes	Yes	Ongoing	
2.39 Access Control Permit Procedures	Yes	Yes	Ongoing	
2.40 Permit to Work and Utility Permits to Work Procedures	Yes	Yes	Ongoing	
2.42 Construction Health and Safety Plan	HAZID LOG Requested	Yes	Ongoing	
2.44 Method Statement Procedures	Yes	Yes	Yes	
2.45 Communications Plan	Yes	Yes	Yes	Ongoing
5 Risk Management & Mitigation Plan	Yes	Yes	Yes	Ongoing

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

Appendix 5 : Pre-Construction Services Deliverables & Progress Matrix

Description of PCS Schedule 1 Document/Plan Deliverables	Index Drafted	Document Drafted	Tie Reviewed Cat A,B,C	Tie Approved Cat A,B
2.2 Work Breakdown Structure	Yes	Yes	Yes	Yes
2.3 Pre-Construction Programme	Yes	Yes	Yes	Yes
2.7 Construction Programme	Yes	Yes	Ongoing	
2.11 Initial Buildability Report	Yes	Yes	Ongoing	
2.14 Unidentified Apparatus Procedure	Yes	Yes	Ongoing	
2.18 Waste Management Plan	Requested	Yes *		
2.19 Construction Site Drainage Plan	Requested	Yes *		
2.20 Landscape and Habitat Management Plan	Requested	Yes *		
2.21 Archaeological and Heritage Mitigation Plan	Requested	Yes *		
2.22 Method of Working Around Protected Species	Requested	Yes *		
2.23 Strategy for Controlling Invasive and Alien Species	Requested	Yes *		
2.24 Condition and Defects Survey	Yes	Yes		
2.25 Management Systems (Quality, Health & Safety and Environment)	Yes	Yes	Yes	
2.26.1 Traffic Management and Work Site Staging Plan	Yes	Yes	Ongoing	
2.26.2 TTRO Obligations and Traffic Management Procedures	Yes	Yes	Ongoing	
2.32 Temporary Works, Security and Fencing Arrangements Plan	Yes	Yes	Ongoing	
2.33 Final Buildability Report	Yes	Ongoing		
2.34 Anticipated Final Account (AFA)	Yes	Yes	Yes	Ongoing
2.37 Benchmarking, Risk Management and Value Engineering Estimates	Yes	Ongoing		



Ref	Date Raised	Category	Raised By	Details	WBS Reference	Reply By	Date	Client Notification Required	Initial Cost Assessment	Initial Programme Assessment	Final Cost Assessment	Final Programme Assessment	Comments
001	24-Oct-06	1	AM	CCTV Sewers - Line 1	Various			Yes	£400,000 to £600,000	To Follow			
002	30-Oct-06	1	AM	PC Services - Martin Meeham (Susan Clark)	n/a			Yes	£60,000	To Follow			
003	8-Nov-06	2	AM	SDS Trial Holes - Under Review	Various			Yes	£600,000 to £800,000	To Follow			
004	14-Nov-06	2	AM	PC Services - Requirement of Management Input to Design Detail and Definition	n/a			Yes	£300,000 (AMIS) & £400,000 (SUC's)	To be Identified			
005	14-Nov-06	2	AM	tie office requirements - vehicles & IT (Dedicated printer / scanner)	n/a			Yes	£25,000	To be Identified			
006	14-Nov-06	2	AM	Construction Services Programme Rev.001 imposing Stakeholder requirements	Various			Yes	TBA	To be Identified			tie Programme Comparator
007	28-Nov-06	2	AM	Proposed temporary extension to Ingliston Park and Ride	n/a			Yes	£350,000 to £400,000	To be Identified			
008	28-Nov-06	1	AM	MUDFA trial holes - proposals	Various			Yes	£100,000 to £150,000	To be Identified			
009	28-Nov-06	1	AM	Electronic copies of Non-PCS Deliverables	n/a			Yes	TBA	To be Identified			
010	5-Dec-06	2	AM	Traffic Management - Specialist Support	n/a			Yes	£60,000	To be Identified			
011	5-Dec-06	2	AM	EARL Design & Construct Proposal	n/a			Yes	£4M to £5M	To be Identified			
012	7-Dec-06	2	AM	Increased initial stock holding to offset preliminary design risk and safeguard production (LLI)	n/a			Yes	£350,000 to £500,000	To be Identified			
013	8-Jan-07	1	AM	Emergency Works - IPR	n/a			Yes	£5,000	None			
014	12-Jan-07	1	AM	Survey of Sewer Manholes at Gogar Depot	n/a			Yes	2000.00	None			
015	25-Jan-07	2	AM	Metal Upgrade Works	Various			Yes		To be Identified			
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Infrastructure Services

Item	Date Issued:	Reference	Title	Written Response Received	PCS Deliverable	Cost / Time Critical
1	16-Oct-06	AMIS/tie/Letter/AM/Projects/001	Revised Organisation Chart Covering Pre-Construction Services (PCS) Phase	Yes 12/12/06	Yes	No
2	16-Oct-06	AMIS/tie/Letter/AM/Projects/002	MUDFA Communication & Contact Details	Yes 12/12/06	No	No
3	23-Oct-06	AMIS/tie/Letter/AM/Projects/003	Revised Pre-Construction services (PCS) Programme	Yes 12/12/06	Yes	Yes
4	25-Oct-06	AMIS/tie/Letter/AM/Projects/004	Pre-Construction Services Input to Deliverables, Clause 2.52 interaction with SDS Programme		Yes	Yes
5	26-Oct-06	AMIS/tie/Letter/AM/Projects/005	Pre-Construction Service & Presentation of 1st Payment Application	Yes 12/12/06	No	Yes
6	27-Oct-06	AMIS/tie/Letter/AM/Projects/006	Pre-Construction Services Input to Deliverables	Yes 12/12/06	Yes	Yes
7	27-Oct-06	AMIS/tie/Letter/AM/Projects/007	SDS Utility Design Status: MUDFA Programme / Project Scope Workshop		Yes	Yes
8	30-Oct-06	AMIS/tie/Letter/AM/Projects/008	Contract A150 Contract Agreement	No	No	Yes
9	31-Oct-06	AMIS/tie/Letter/AM/Projects/009	MUDFA SDS & AMIS Utility Design Review Process	Yes 12/12/06	Yes	Yes
10	31-Oct-06	AMIS/tie/Letter/AM/Projects/010	MUDFA AMIS Project Progress Report - Contract Requirements 2.46	No	Yes	No
11	31-Oct-06	AMIS/tie/Letter/AM/Projects/011	MUDFA tie & AMIS Site Project Office @ Chancelot Mills, Edinburgh	No	Yes	Yes
12	1-Nov-06	AMIS/tie/Letter/AM/Projects/012	MUDFA AMIS Risk and Mitigation Register - Preliminary Copy	Yes 12/12/06	Yes	Yes
13	2-Nov-06	AMIS/tie/Letter/AM/Projects/013	AMIS MUDFA Support Services to SDS Design Authority	Yes 12/12/06	Yes	Yes
14	2-Nov-06	AMIS/tie/Letter/AM/Projects/014	AMIS MUDFA "Preliminary" WBS and Workslope Definition Document	Yes 12/12/06	Yes	Yes
15	3-Nov-06	AMIS/tie/Letter/AM/Projects/015	AMIS MUDFA Request for Information & Assistance - Line 1, Section 5	Yes 12/12/06	Yes	Yes
16	3-Nov-06	AMIS/tie/Letter/AM/Projects/016	AMIS MUDFA Request for Information & Assistance - Line 1, Section 7A	Yes 12/12/06	Yes	Yes
17	3-Nov-06	AMIS/tie/Letter/AM/Projects/017	AMIS MUDFA new E-Mail Address for all Future tie E-Mails	Yes 12/12/06	No	No
18	7-Nov-06	AMIS/tie/Letter/AM/Projects/018	AMIS MUDFA Request for Information & Assistance - Line 2, Section 3A	Yes 12/12/06	Yes	Yes
19	7-Nov-06	AMIS/tie/Letter/AM/Projects/019	AMIS MUDFA request for Information & Assistance Line 2, Section 3B	Yes 12/12/06	Yes	Yes
20	7-Nov-06	AMIS/tie/Letter/AM/Projects/020	AMIS MUDFA request for Information & Assistance Line 2, Section 3C	Yes 12/12/06	Yes	Yes
21	7-Nov-06	AMIS/tie/Letter/AM/Projects/021	AMIS MUDFA request for Information & Assistance Phase 2, Section 4	Yes 12/12/06	Yes	Yes
22	7-Nov-06	AMIS/tie/Letter/AM/Projects/022	AMIS MUDFA request for Information & Assistance Line 1, Section 6	Yes 12/12/06	Yes	Yes
23	7-Nov-06	AMIS/tie/Letter/AM/Projects/023	AMIS MUDFA Work Order Requirement - Clause 8.9, 8.10, 8.11 & 8.12	Yes 13/12/06	Yes	Yes
24	7-Nov-06	AMIS/tie/Letter/AM/Projects/024	AMIS MUDFA Revised Payment Application - Pre-Construction Services (PCS)	Yes 13/12/06	No	Yes
25	7-Nov-06	AMIS/tie/Letter/AM/Projects/025	AMIS MUDFA Programme - tie Advanced and Enabling Works & Design Interface	No	Yes	Yes
26	8-Nov-06	AMIS/tie/Letter/KAG/Projects/026	AMIS Insurance Certificate	No	No	No
27	10-Nov-06	AMIS/tie/Letter/AM/Projects/027	AMIS MUDFA planning Interface & Demarcation Schedule		Yes	Yes
28	10-Nov-06	AMIS/tie/Letter/KAG/Projects/028	Clause 46 - Changes	Yes 13/12/06	Yes	Yes
29	14-Nov-06	AMIS/tie/Letter/KAG/Projects/029	Clause 13 - tie's Representative	Yes 13/12/06	Yes	Yes
30	13-Nov-06	AMIS/tie/Letter/AM/Projects/030	AMIS MUDFA Design and Construction Planning Interface	No	Yes	Yes
31	13-Nov-06	AMIS/tie/Letter/AM/Projects/031	AMIS MUDFA Design Interface and Pre-Construction Services Programme	No	Yes	Yes
32	14-Nov-06	AMIS/tie/Letter/AM/Projects/032	AMIS MUDFA Long Lead Times Items	No	Yes	Yes
33	16-Nov-06	AMIS/tie/Letter/AM/Projects/033	tie & AMIS MUDFA Monthly Progress Meeting	Yes 13/12/06	Yes	No
34	16-Nov-06	AMIS/tie/Letter/AM/Projects/034	AMIS MUDFA Design and Construction Lead Times	Yes 13/12/06	Yes	Yes
35	17-Nov-06	AMIS/tie/Letter/AM/Projects/035	SDS Utility Detailed Outputs - Final SDS DD/AFC format and Detail	No	Yes	Yes
36	22-Nov-06	AMIS/tie/Letter/AM/Projects/036	Schedule 1, Clause 2.25 - AMIS Management System (PCS & CS Service), Schedule 2, Clause 3.2 - AMIS Method Statements (PCS & CS Service)	Yes 13/12/06	Yes	No

Item	Date issued:	Reference	Title	Written Response Received	PCS Deliverable	Cost / Time Critical
37	22-Nov-06	AMIS/tie/Letter/AM/Projects/037	Schedule 1, Clause 2.26 - Traffic management Plan (Draft)	No	Yes	Yes
38	23-Nov-06	AMIS/tie/Letter/AM/Projects/038	Prime Cost Work Undertaken directly by Utility Specialist Contractors	Yes 26/01/07	Yes	Yes
39	23-Nov-06	AMIS/tie/Letter/AM/Projects/039	SDS Change Control System - AMIS / Site Raised Technical Queries (TQ's)	No	Yes	Yes
40	24-Nov-06	AMIS/tie/Letter/AM/Projects/040	CEC & tie Ltd - MUDFA & Roads Reinstatement Requirements	No	Yes	No
41	24-Nov-06	AMIS/tie/Letter/AM/Projects/041	tie ltd & Stakeholders Imposed Programme - Revision 01	No	Yes	Yes
42	28-Nov-06	AMIS/tie/Letter/KAG/Projects/042	Anticipated Final Account (AFA)	Yes 13/12/06	Yes	Yes
43	30-Nov-06	AMIS/tie/Letter/KAG/Projects/043	Schedule 14 - Parent Company Guarantee	No	Yes	Yes
44	30-Nov-06	AMIS/tie/Letter/KAG/Projects/044	Application For Payment nr.1 (Revised)	No	No	Yes
45	30-Nov-06	AMIS/tie/Letter/KAG/Projects/045	Edinburgh Tram Business Case - Section 3A, 3B & 3C Options	No	No	Yes
46	30-Nov-06	AMIS/tie/Letter/KAG/Projects/046	Clause 49 Payment	No	No	Yes
47	4-Dec-06	AMIS/tie/Letter/KAG/Projects/047	Management & Mitigation of Risk	Yes 26/01/07	Yes	Yes
48	4-Dec-06	AMIS/tie/Letter/KAG/Projects/048	Clause 46 - Changes	No	Yes	Yes
49	4-Dec-06	AMIS/tie/Letter/AM/Projects/049	Monthly Project Progress Report	No	Yes	Yes
50	4-Dec-06	AMIS/tie/Letter/AM/Projects/050	Trail Holes & Contract Change Order Request	No	No	No
51	5-Dec-06	AMIS/tie/Letter/AM/Projects/051	Delegated Financial Responsibility & Powers	No	Yes	Yes
52	6-Dec-06	AMIS/tie/Letter/AM/Projects/052	Project Office Relocation at Chancelot Mills	Yes 13/12/06	No	No
53	6-Dec-06	AMIS/tie/Letter/AM/Projects/053	Construction Programme P3e WBS Structure	Yes 12/12/06	Yes	Yes
54	12-Dec-06	AMIS/tie/Letter/KAG/Projects/054	Phase 2 Ingliston Park & Ride Extension	No	No	No
55	12-Dec-06	AMIS/tie/Letter/AM/Projects/055	SDS Design Outputs & AMIS Buildability - Ideas	No	No	Yes
56	14-Dec-06	AMIS/tie/Letter/AM/Projects/056	Delegated Financial Responsibility & Powers	No	Yes	Yes
57	14-Dec-06	AMIS/tie/Letter/AM/Projects/057	SDS Design Worksopce Demarcation Meeting	No	Yes	Yes
58	15-Dec-06	AMIS/tie/Letter/AM/Projects/058	AMIS Response to tie Contract Correspondence	No	Yes	Yes
59	15-Dec-06	AMIS/tie/Letter/AM/Projects/059	Office Relocation to Western Harbour, Leith	No	No	No
60	19-Dec-06	AMIS/tie/Letter/KAG/Projects/060	Anticipated Final Account (AFA) - 2nd Issue	No	Yes	Yes
61	19-Dec-06	AMIS/tie/Letter/AM/Projects/061	SDS & AMIS Utility Design Review Process	No	No	Yes
62	29-Dec-06	AMIS/tie/Letter/AM/Projects/062	tie & AMIS MUDFA Monthly Progress Meeting	No	Yes	Yes
63	29-Dec-06	AMIS/tie/Letter/AM/Projects/063	Draft Communication Plan – PCS Deliverables	No	Yes	Yes
64	12-Jan-07	AMIS/tie/Letter/AM/Projects/064	Demarcation Meetings - December 2006	No	No	Yes
65	15-Jan-07	AMIS/tie/Letter/AM/Projects/065	tie ltd & Stakeholders Imposed Programme - Revision 03 Clause 2.7	No	Yes	Yes
66	16-Jan-07	AMIS/tie/Letter/AM/Projects/066	Site Raised Technical Queries Procedure	No	No	Yes
67	18-Jan-07	AMIS/tie/Letter/AM/Projects/067	Prime Cost Sums - Scottish Power Cables	No	No	Yes
68	19-Jan-07	AMIS/tie/Letter/AM/Projects/068	Application For Payment nr.1	No	Yes	Yes
69	19-Jan-07	AMIS/tie/Letter/AM/Projects/069	Pre Construction Services Input to Deliverables - Risk Management	No	Yes	Yes
70	19-Jan-07	AMIS/tie/Letter/AM/Projects/070	Clause 46 - Changes	No	Yes	Yes
71	19-Jan-07	AMIS/tie/Letter/AM/Projects/071	Anticipated Final Account (AFA)	No	Yes	Yes
72	19-Jan-07	AMIS/tie/Letter/AM/Projects/072	Traffic management Proposal foe worksite (Casino Sq)	No	Yes	Yes
73	19-Jan-07	AMIS/tie/Letter/AM/Projects/073	Technical Queries - Section 1A (Trail Site @ Tower Str)	No	No	Yes
74	24-Jan-07	AMIS/tie/Letter/AM/Projects/074	Notice of change Nr 1 - Sewer Condition Survey	No	No	Yes
75	Next					
76						
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			Summary			
			Received Response	32	43.2%	
			Received No Response	42	56.8%	
			Cost / Time Critical	62		
			PCS Deliverable	54		
					100.0%	