Date: 15 October 2014



Item 9: Key Findings from Internal Audit Reports

This paper will be considered in public

1 Purpose

1.1 The purpose of this paper is to inform the Panel about Internal Audit Reports related to Safety, Accessibility and Sustainability issued during Quarter 1, 2014-15.

2 Recommendation

2.1 **The Panel is asked to the paper.**

3 Background

- 3.1 Appendix 1 provides a summary of the HSE and Technical audit reports issued during Quarter 1. On completion of each HSE and Technical Audit, an audit report is issued to the 'Client' within the business who commissioned the work and copied to other relevant staff involved in the audit. Where corrective actions or improvement actions are agreed to address issues identified by the audit, these are tracked by the audit team, including review of supporting evidence, in order to confirm that the issues have been properly addressed.
- 3.2 The HSE&T reports now include an overall audit conclusion in the same way as for other internal audit reports. One HSE&T report issued during the quarter had a 'poorly controlled' conclusion. The audit of management of Temporary Approved Non-Compliance (TANC) for signal asset planned maintenance identified a number of issues in relation to the control over and approval of TANCs. Urgent management action is being taken forward to address the issues found.
- 3.3 One of the Interim Internal Audit Reports issued during Quarter 1 is also of relevance to the panel. This was in relation to the Road Safety Action Plan and was concluded as 'well controlled'. A summary is included as Appendix 2.

Embedded assurance

- 3.4 In addition to HSE and Technical audits carried out by Internal Audit, a number are carried out during the year by staff 'embedded' throughout TfL for whom auditing is just a part of their role. At this time, we are aware of audits being carried out in the following areas:
 - Surface Transport

- London Overground
- LU Capital Programmes Directorate
- 3.5 Embedded audit work in relation to Surface Transport and London Overground was incorporated in the Integrated Assurance Plan for 2014/15 approved by the Audit and Assurance Committee in March, and progress is reported here for the first time. Information from the LU Capital Programmes Directorate, and other areas that may be identified, will be incorporated into reports in due course.
- 3.6 Surface Transport No audits were completed by embedded auditors within Surface Transport in Q1.
- 3.7 London Overground Two audits were delivered during Q1, in respect of Accident and Incident Investigation Reporting; and Standards Management Procedure. There were no significant findings from either of these audits, with six minor observations raised in total.

List of Appendices to this Report:

Appendix 1: Health, Safety and Environment and Technical Reports Issued - Quarter 1 2014/15

Appendix 2: Interim Reports Issued – Quarter 1 2014/15

List of Background Papers:

None

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| Finals |
|---------------------------|
| WC= Well Controlled |
| AC= Adequately Controlled |
| RI= Requires Improvement |
| PC= Poorly Controlled |

| Reference | Report Title | Report Issued | Original Objective | Summary of Finding |
|-------------|---|------------------|--|---|
| Rail and Ur | derground | | | |
| Delivery of | capital investment portfolio a | nd contract mana | gement | |
| IA_13_860 | Civil Engineering Design Management – Embankment Escalator Replacement Project | 02/04/2014 AC | To review the adequacy and effectiveness of civil engineering design management and interface processes. | This audit is one of five covering different civil engineering desi The Civil Engineering Internal Design process in the areas aud except for two issues as noted below: The mechanism to be used to manage proposed design chaclearly established. It was not clear during the audit if and how drawings issued whom, to reflect the as-built status. |
| IA_13_750 | Civil Engineering Design Management - Bridges and Structures | 02/04/2014 AC | To review the adequacy and effectiveness of civil engineering design management and interface processes. | This audit is one of five covering different civil engineering desi In the areas audited, the Civil Engineering Internal Design proc complies with specified requirements, is consistently applied ar One minor issue was raised as a result of this audit. |
| IA_13_861 | Civil Engineering Design Management - External Design (SWIP - Fairhurst) | 02/05/2014 AC | Examination of civil engineering design management and interface processes and procedures | Issues identified were: Some of the baseline drawings prepared by Fairhurst are system, and are currently noncompliant. Increased clarity is required regarding the meaning of "d "endorsed by". Arrangements for managing proposed design changes the clearly defined. |
| IA_13_862 | Civil Engineering Design Management - Vauxhall Station Capacity Upgrade (VSCU) Project | 02/05/2014 AC | Examination of civil engineering design management and interface processes and procedures. | Issues identified were: The Bechtel Contractor Quality Assurance Plan and Dese expectation that a three-stage Prepare / Check / Approvideliverables. In practice, this three-stage process is applied (CDSs) and Design Check Certificates (DCCs), but is no requirements were unclear. |

sign management areas.

udited complies with specified requirements,

hanges during Stage 5 (Delivery) could not be

ed for construction were to be updated, and by

sign management areas.

ocess for Bridges and Structures projects and is working well.

are in Auto CAD (Computer Aided Design)

"drawn by", "checked by", "approved by" and

that arise during Stage 5 (Delivery) are not

esign Management Plan create the ove process applies to all Bechtel design oplied to Conceptual Design Statements not applied to individual drawings. LU

| Reference | Report Title | Report Issued | Original Objective | Summary of Findin |
|-----------|---|------------------|---|--|
| | | | | Bechtel has numerous Quality Control Procedures (QCI however, the processes that would involve LU in the rev changes were also unclear. |
| IA_13_863 | Civil Engineering Design Management - External Design (SWIP - Pell Frischmann) | 02/05/2014 AC | Examination of civil engineering design management and interface processes and procedures | Issues identified were: LU Standards describe a two-stage Author / Approve pr Frischmann Procedure BP007 describes a three-stage i Pell Frischmann Procedures do not specify the use of al changes to LU, and it was not clear whether LU has cor for proposing and approving any design changes that m For the Hammersmith Station Gateline project, the supp the Pell Frischmann commercial submission to LU, and apply. |
| IA_13_768 | Implementation of Earth Structures Designs – Clancy Docwra | 15/04/2014 AC | To examine the implementation of earth structure designs during the delivery phases of various projects, to determine the degree of compliance with specified requirements and to identify any improvement opportunities. | This audit is one of three undertaken on three different contract. In the areas audited, LU and Clancy Docwra Limited (CDL) are requirements. However, there have been significant delays to t Communication between LU, CDL and CDL's designer Sinclair effective than it could have been, and it was generally agreed to SKM to have attended the Project Progress Meetings with LU at A number of issues were raised, the most significant of which we available during the audit. The CDL and LU Construction Inspector signatures on the confirm that the requirements of LU Standards and Specific criteria have been met. |
| IA_13_865 | Implementation of Earth Structures Designs (Cementation Skanska) | 01/05/2014 AC | Examine the implementation of earth structure designs during the delivery phases of various projects | Issues identified were: There were a number of discrepancies relating to Settin Installation Check Sheets leading to a lack of clarity that Specifications and associated acceptance criteria have There was no evidence that the design change control p Cementation Skanska and documented in an appropriate |
| IA_13_866 | Implementation of Earth Structures Designs (LU Construction Management Team) | 01/05/2014 AC | Examine the implementation of earth structure designs during the delivery phases of various projects | Issues identified were: An approved Temporary Works plan has been submitte Experienced Construction Managers are in place to more Managers have not been formally appointed as Tempore Standards and attended the appropriate training course |

CPs) that describe design change processes; eview and acceptance of proposed design

process for the Contractor, but Pell internal Design / Check / Approve process. any formal mechanism for proposing design pontractually specified any formal mechanism may arise.

oply of as-built drawings was not included in d it was not clear what arrangements would

ctors.

re generally complying with specified the programme and increased costs. air Knight Merz (SKM) has been less I that it would have been beneficial for J and CDL.

were:

, and a project specific VAP was not made

e Inspection Checklists do not directly fications and associated acceptance

ng Out Reports, Inspection Records and Pile at the requirements of LU Standards and been met.

process had been agreed by LU and ate manner.

ed and approved by competent persons. onitor implementation. These Construction prary Works Co-ordinators as required by LU e for the role.

| Reference | Report Title | Report Issued | Original Objective | Summary of Findin |
|-----------|--|------------------|---|---|
| | | | | Overall, assurance was provided that the team has the their roles and responsibilities. Records demonstrating I people roles and responsibilities had not kept pace with The project has progressed to delivery stage. The docu defining the project requirements was not linked to the T available for future reference Overall, inspection and test plans are in place including that inspection and tests had occurred as required, The not yet have inspection and test arrangements agreed a designs. |
| - | to quality of service | 1 | | |
| IA_13_755 | Temporary Approved Non- Compliance (TANC) management for Signal Asset Planned Maintenance | 16/06/2014 PC | To provide assurance in relation to the delivery of Signals asset maintenance. | The status of issued TANCs was adequately recorded with visit reporting processes. However, the following significant issues were identified: There were a number of steps in the process that were not have expired TANCs or have no TANC where maintenance It was not possible to confirm that TANCs sampled had been persons. There is no system for authorisation traceability. Independent verification of TANCs is not being carried out, Planning staff were found to be using uncontrolled TANC mitigation, the closure requirements and maintenance cycle. |
| IA_14_734 | Supplier Audit – Otis Ltd Escalator Maintenance | 09/05/2014 RI | To provide assurance in relation to Otis Ltd's compliance to London Underground procedures, Otis Ltd procedures and regulatory requirements regarding the maintenance of escalators. | The audit found that: Escalator maintenance is being managed to the required Drugs and alcohol testing is effectively managed. Local procedures are being developed for the maintenan This will ensure the procedures are formalised to manage enter into the maintenance contract. However, three significant issues were noted: There is no procedure for labelling and quarantining define There is no register of equipment requiring calibration, or in calibration. Otis failed their Freight Operator Registration Scheme (I up audit booked for June 2014. |
| IA_13_808 | Project Data – JNP Lifts and escalators | 16/06/2014 RI | To determine the level of compliance with the Asset Registration procedure to | A number of key process steps in the Asset Registration P |

e necessary competencies and people knew g how competence had been assessed and th some staff moves and so need reviewing. cument produced at the start of the project e The Gate Management Plan to ensure it was

g acceptance criteria and evidence provided he exception was for 'soil nailing', which does I as tests are being undertaken to verify the

isibility to management via established

ot being complied with; assets were found to nee schedules had not been met. been written and verified by TANC authorised

ut, only an ad-hoc random sampling. C management reference documents for TANC rcle reference.

Ellipse within the expected seven day period.

red specification and frequency.

nance of escalators and associated processes. age the increase in work as more escalators

efective materials.

or a procedure to ensure equipment remains

(FORS) audit in May 2013 and have a follow

Procedure are not being complied with. This

| Reference | Report Title | Report Issued | Original Objective | Summary of Findin |
|-----------|---|------------------|--|--|
| | | | ensure a current and up to date asset register is maintained for JNP lifts and escalators. | has led to a lack of confidence in the asset data held on Ma Changes to lift and escalator assets which occur during ma Maximo. The Asset Manager is being circumvented by Projects in te assets and supplying information on changes to assets Asset data is being supplied at the end of the project rather procedure. The procedure does not reflect current business structure a |
| IA_13_803 | Northern Line Upgrade Configuration Management | 27/05/2014 AC | To provide independent assurance over configuration control for Transmission Based Train Control (TBTC) on the Northern Line as part of the recent upgrade. | Issues were identified in relation to: The completeness of part numbers and serial numbers for handed over to maintenance; and, a number of project documents had not been updated to rechanges in process. |
| IA_14_762 | Hot Weather Preparedness - JNP | 16/06/2014 AC | To provide assurance of compliance to Category 1 Standard S1177 – Track – Prevention of Buckling and associated procedures and work instructions before the onset of hot weather. | Plain Line Site Diagrams detailing the entire track lengths in 10 good practice allows plain line sites to be checked for gaps and Track registers, including inspection dates and CRTs (Compute registers are being updated to reflect changes to track site num One issue was noted in relation to Track thermometers which a S1177. |
| IA_13_753 | Management of Extra Low Loss Conductor Rail | 06/05/2014 AC | To confirm appropriate management systems were in place to ensure compliance against the relevant Category 1 Standards for the inspection and maintenance of Extra Low Loss Conductor Rails (ELLCR). | Overall, the location of ELCCR is known and mandatory inspect undertaken in accordance with LU standards. Minor issues identified were: There was no evidence of inspection of the vertical gauge 65m in the rear of station platform stop markers across There is a large number of overdue Maintenance Level no safety risk but their reduction would ensure assets an There is no mandatory requirement for ultrasonic inspect Document there is indication that this should occur ever identified. This has not occurred or been programmed or |
| IA_14_735 | Clayton Equipment Limited | 14/05/2014 AC | To provide assurance to TfL and London Underground that Clayton Equipment Limited has implemented and is working in compliance with acceptable business procedures | |

Maximo.

maintenance are not being captured in

terms of requesting information on existing

ner than pre-construction as required by the

and arrangements.

or newly commissioned signalling equipment

reflect changes to other documents and

10m increments are used by APJNP. This nd overlaps remotely.

uter Rail Temperatures), are in place. The umbering and track categorisation.

are not being calibrated in compliance with

ections and maintenance planned and

uge of both conductor rails over a distance of s all Lines.

el Targets on the Jubilee line. These represent are maintained to optimum levels. ections of ELCCR. Within a TfL Guidance ery five years or where excessive wear is on any Line.

with a Management System that is registered essor and were maintaining quality processes nt system.

rocedures and processes to manage the esign, build and commissioning stages of

| Reference | Report Title | Report Issued | Original Objective | Summary of Findin |
|-------------|---|------------------|---|--|
| | | | | No Non-Conformances, Business Improvement Actions or Obs |
| Major Incid | lent - External | | | |
| IA_13_784 | Facilities Management – Operational Premises | 15/04/2014 RI | To determine whether LU Office Facilities are being inspected in accordance with the requirements of LU Category 1 Standard, Reference Documents and associated LUL Specification Contract. | Inspection activities and frequencies are adequately defined will effectively to ensure that these activities are delivered by LU are performance in relation to reactive faults. A number of monitorial Inspections) exceed the stated requirements. However, a number of significant issues were also identified: LU Management System documentation was found to be ure managers and inspectors should undertake their tasks. Concurrent organisational arrangements and systems Whilst evidence indicated that LU inspectors have suffice competence levels of its facilities inspectors or utilise tools to licences. The Vinci competency matrix which is a contramaintained. Some requirements for monitoring activities (Quality Check undertaken. A sample of checks found assets not labelled with service in some statutorily required documentation and other information within the Technical Library. |
| IA_13_780 | JNP Temporary Works | 17/04/2015 AC | To provide assurance in relation to the compliance with and overall effectiveness of the JNP processes for temporary works and to ensure that temporary works are being undertaken by competent people. | The audit found that temporary works are being managed in ac Design Statement. The documentation submitted to the Temporar 716 is being effectively managed. The two most significant issues were as follows: P-2-092 – Temporary Works Planning and Execution had r the three temporary works audited. The auditees were una Assurance package requirements need to be developed fo contractors. |
| IA_13_798 | JNP Flood Protection (Canning Town and Westminster) | 30/05/2014 RI | To provide assurance that COO APJNP maintenance processes are in place to guarantee functionality of flood protection at Canning Town portal and Westminster (Storey's Gate) flood-gates. | Issues identified were: The Canning Town floodgates did not operate as expected correctly whilst in manual operational mode. There is no programme in place to ensure ongoing mainter Westminster flood protection systems. No date has been set for the testing of the Westminster (State) |
| IA_13_776 | Lift Competence Management Assessments | 15/05/2014 AC | To assess whether competence assessments of station staff who undertake lift procedures are undertaken in | Issues identified were: The expectation of a 'simulated' lift assessment needs of cases. Assessor notes do not include all required information. |

bservations were identified.

with management generally operating and its contractor (Vinci). There was good oring activities (PGIs and Cleaning

under-developed with regard to defining how Other documents were found not to reflect

ficient competence, LU does not define the s to ensure that inspectors refresh training and tractual requirement was found to be poorly

ecks and Joint Inspections) are not currently

information as required nation was not available or stored as required

accordance with TLF-716 – Temporary Works porary Works Controller in support of the TLF-

I not been referenced for guidance on any of naware of the procedure.

for inclusion in the tender package sent to

ed whilst in automatic mode. They did function

tenance and testing of the Canning Town and

Storey's Gate) flood protection system.

clarifying so that it is as real as possible in all

This is being addressed through a planned Page **5** of **6**

| Reference | Report Title | Report Issued | Original Objective | Summary of Findin |
|-----------|---|------------------|---|--|
| | | | compliance with Competency Management System (CMS) requirements. | upgrade to the CMS SAP system in June 2014. |
| Environme | ntal Impact of Delivering a Tra | Insport Service | · · · | |
| IA_13_858 | Compliance with ISO 14001 | 15/04/2014 RI | To determine the level of compliance of the management systems in place across London Underground (LU) with the requirements of BS EN ISO 14001. | The audit found that all areas of LU have an Environmental Mathe structure and the management of the EMSs meet the requirement of the area a large number of processes and documents in placenvironment. The Environment Team have an objective for 20 (former Tube Lines) and LU EMSs. Work is already underway of A number of significant issues were identified, as follows: The LU HSE Policy does not contain all of the elements Environmental objectives and targets for the forthcoming integrated into relevant business areas. Opportunity exists to enhance training by integrating JN practicable. An evaluation of compliance against non-legal requirem undertaken. The Environment Team's role in environmental incident |
| Crossrail | | I | | |
| IA_13_521 | Health & Safety Performance Index (HSPI) Reporting | 20/05/2014 AC | The audit focused on the processes around the Health and Safety Performance Index (HSPI) including the requirements of the Health and Safety Rating and Recognition Scheme (CR- XRL-Z7-GPD-CR001-50001 rev 6) and recognised industry best practice. | Overall, the HSPI reporting process is effective. However, the a There was inconsistency in level of detail to support (PCs). The validity of information supplied by the PCs was KPI process. There is an opportunity for formal training and guida approach to the assessment, verification and moder supplied during Gateway Assessments. A number of the PCs see the KPI process as a dupl their own Health and Safety Management system. |

- Management System (EMS) in place. Overall juirements of the ISO 14001 Standard.
- ace in relation to management of the 2014-15 to review and amalgamate the JNP by on elements of this.
- its required by the ISO Standard. ing year have been set but are not currently
- INP and LU training courses where
- ments relevant to the organisation needs to be
- nt investigations needs to be clarified.
- audit noted the following:
- ort KPIs recorded by Principal Contractors
- as not independently checked as part of the
- dance to be provided to ensure a consistent leration practices in relation to evidence
- plication of work they have to undertake in

| Interim |
|--|
| AC= Adequately Controlled |
| RI= Requires Improvement |
| PC= Poorly Controlled |
| WC= Well Controlled and Audit Closed |
| AC/ACL = Adequately Controlled and Audit Closed |

| Reference | Responsible Director | Report Title | Interim Report Issued | Original Objective | Follow-up Audit | |
|--------------|---|-------------------------|--------------------------|--|------------------|--|
| Surface Tran | sport | | | I | | <u> </u> |
| IA_14_110F | Director of Strategy and Planning | Road Safety Action Plan | 18/06/2014 WC | To review the implementation of the Action Plan. | 18/06/2014 WC | The audit ascertained to the relevant parties have actions it is responsible deadlines ranging from ended nature. As part of its monitoring meetings with the repre- implementing the action information on the state already being implement two will begin later in 2 delivery of the actions The road safety budge over £200M. Effective efficient utilisation, and In addition, TfL provide Implementation Plans deliver better transport Transport Strategy, and The amount available for £55m will be allocated An appropriate governa Reduced Casualties St Strategy and Planning, Action Plan; and the Re Deputy Mayor for Transport Transport Strategy |

Summary of Findings

d that the Action Plan is being implemented. All ave been identified, and each is aware of the ble for. While some actions have implementation of 2013 to 2016, a good number are of an open-

ing function, Delivery Planning holds regular presentatives of the teams responsible for ions, to discuss any relevant issues and obtain atus of the actions. Fifty four of the actions are nented, while the implementation of the remaining 2014. An effective process for tracking the s is in place.

get for the 10-year period 2013/14 to 2021/22 is e controls are applied to ensure effective and nd expenditure within budget.

des funds to the London boroughs for their Local s (LIPS). The LIPS set out how the boroughs will ort in their area in the context of the Mayor's and include road safety improvement schemes. e for 2014/15 is \pounds 148.8m, out of which almost d to road safety schemes.

nance framework is in place, including the Steering Group, chaired by the Director of Surface g, which oversees the implementation of the Road Safety Steering Group, chaired by the ansport, with representation from a number of

Transport for London Safety, Accessibility and Sustainability Panel-Interim Reports Issued Quarter 1 2014/15

| Reference | Responsible Director | Report Title | Interim Report Issued | Original Objective | Follow-up Audit | |
|-----------|-------------------------|--------------|--------------------------|--------------------|-----------------|--|
| | | | | | | organisations, including London Ambulance Se review and report on p London. |
| | | | | | | Terms of reference have meet regularly. In accor- publish reports and info London. This includes Roads report, and the |
| | | | | | | The audit did not ident |

Summary of Findings

ing the Metropolitan Police, London boroughs, Service etc. One of this group's main duties is to progress in implementing road safety policy in

ave been developed for the two groups, and they cordance with the Action Plan, ST continues to nformation describing the casualty situation in es the annual Collisions and Casualties on London e Health, Safety and Environment report.

ntify any issues and is therefore now closed.