This document is shared for the purposes of learning legacy. It is a snapshot in time and hence many of the links within the document will become obsolete over time. Some links/document references will refer to a document storage location that isn't accessible. Users should refer to the learning legacy website where these documents may be published separately.

TECHNICAL INFORMATION

TECHNICAL INFORMATION

COMPLIANCE PROCEDURE

Document Number: CRL1-XRL-Z3-GPD-CR001-50008

Current Document History:

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<th>Effective Date</th>
<th>Author(s) ('Owner' in eB *)</th>
<th>Reviewed by: ('Checked by' in eB *)</th>
<th>Approved by</th>
<th>Reason for Issue</th>
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<td>4.0</td>
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<td>Complete process review and team reorganisation</td>
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<tr>
<td>4.0</td>
<td>Section 1 Purpose - updated</td>
</tr>
<tr>
<td></td>
<td>Section 2 Scope - updated</td>
</tr>
<tr>
<td></td>
<td>Section 4 Roles &amp; Responsibility - updated to include additional Roles</td>
</tr>
<tr>
<td></td>
<td>Section 5 till Section 8 have been replaced by the individual functions/processes within Document and Data Compliance team</td>
</tr>
<tr>
<td></td>
<td>Section 5 –Background information section added</td>
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<tr>
<td></td>
<td>Section 6 - Performance Assurance Framework (PAF) process updated</td>
</tr>
<tr>
<td></td>
<td>Section 7 - The Employer's Completion Process ‘ECP’ updated</td>
</tr>
<tr>
<td></td>
<td>Section 8 - Handover Readiness details updated. Handover Assurance section added.</td>
</tr>
<tr>
<td></td>
<td>Section 9 - Reference Documents updated</td>
</tr>
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<td></td>
<td>Section 10- Standard Forms / Templates updated</td>
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1 Purpose

The purpose of this procedure is to define the delivery of the Document and Data Compliance Programme that will facilitate effective capture, storage, control and delivery of all formally released/issued documents and data. This is in accordance with BS EN ISO 9001:2008, Works Information and Best Practice that satisfies Crossrail quality, legal, security and assurance requirements.

This procedure describes the Compliance strategy, resource, planning, scheduling, execution, capture and reporting of methodologies, associated findings and risks.

2 Scope

All formally released/issued documented technical information collected by Crossrail; that are required through the lifecycle of the Crossrail project. This includes documents and records for handover to Information Managers (IM) and stakeholders.
## 3 Terms & Definitions

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIM</td>
<td>Building Information Modelling</td>
</tr>
<tr>
<td>CAD</td>
<td>Computer Aided Design</td>
</tr>
<tr>
<td>CAR</td>
<td>Corrective Action Report</td>
</tr>
<tr>
<td>Compliance</td>
<td>The ability to meet contractual/legal requirements to act accordingly to defined process and procedures</td>
</tr>
<tr>
<td>COS</td>
<td>Central Operating Section</td>
</tr>
<tr>
<td>CRL</td>
<td>Crossrail</td>
</tr>
<tr>
<td>DC</td>
<td>Document Control</td>
</tr>
<tr>
<td>DDC</td>
<td>Document and Data Compliance</td>
</tr>
<tr>
<td>Deliverable</td>
<td>Contractually defined document</td>
</tr>
<tr>
<td>DLR</td>
<td>Docklands Light Railway</td>
</tr>
<tr>
<td>DMT</td>
<td>Document and Data Management Team</td>
</tr>
<tr>
<td>eB</td>
<td>Enterprise Bridge – the Crossrail Electronic Document Management System (EDMS).</td>
</tr>
<tr>
<td>ECP</td>
<td>Employer's Completion Process</td>
</tr>
<tr>
<td>EDMS</td>
<td>Electronic Document Management System</td>
</tr>
<tr>
<td>HMDL</td>
<td>Handover Master Deliverable List</td>
</tr>
<tr>
<td>KPI</td>
<td>Key Performance Indicator</td>
</tr>
<tr>
<td>LUL</td>
<td>London Underground Ltd.</td>
</tr>
<tr>
<td>MDL / CMDL</td>
<td>Master Deliverable List / Contract Master Deliverable List</td>
</tr>
<tr>
<td>NCR</td>
<td>Non Conformance Report</td>
</tr>
<tr>
<td>NR</td>
<td>Network Rail</td>
</tr>
<tr>
<td>PAF</td>
<td>Performance Assurance Framework</td>
</tr>
<tr>
<td>PIC</td>
<td>Project Information Controller (Delivery team)</td>
</tr>
<tr>
<td>Placeholder</td>
<td>An eB document where metadata is created and file is yet to be saved</td>
</tr>
<tr>
<td>PTR</td>
<td>Project Technical Request</td>
</tr>
<tr>
<td>RfL</td>
<td>Rail for London</td>
</tr>
<tr>
<td>Supervisor Rep (PFE)</td>
<td>Supervisor Rep ( Project Field Engineer)</td>
</tr>
<tr>
<td>TDR</td>
<td>Technical Directorate Report</td>
</tr>
<tr>
<td>TfL</td>
<td>Transport for London</td>
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</tbody>
</table>

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## 4 Responsibilities

<table>
<thead>
<tr>
<th>Role</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIM Coordinator</td>
<td>Collates the information from Technical Information and Produces the Technical Information Benchmarking and Performance Table.</td>
</tr>
<tr>
<td>Document and Data Compliance (DDC) team.</td>
<td>Delivery of the Document and Data Compliance Programme that will facilitate effective capture, storage, control and delivery of all formally released/issued documents and data. This is in accordance with ISO 9001:2008, Works Information and Best Practice that satisfies Crossrail quality, legal, security and assurance requirements. Functional Lead for Section 5 of the Performance Assurance Framework (PAF) – ‘Document Quality &amp; Control’.</td>
</tr>
<tr>
<td>Tier 1 Supplier</td>
<td>CRL contractors being assessed and required to evidence their performance.</td>
</tr>
<tr>
<td>Document and Data Compliance Manager</td>
<td>Developing the strategy, managing and performing contractor Compliance Reviews pertaining to Section 5 of the PAF (Document Quality and Control). Development and management of KPI metrics for period reporting, Contractor Benchmarking and Management Reviews. Development and management of Root Cause Analysis (‘Spot On’) and issuing NCRs – in identifying risk and driving continuous improvement across the contracts. Feeding the Document and Data Compliance input for contract completion – in accordance with the ECP.</td>
</tr>
<tr>
<td>Document and Data Compliance Officer</td>
<td>Performing and supporting Contractor Compliance Reviews. Monitoring, following up and closing actions and recommendations from the Compliance Review Tracker. Compiling PAF-related KPI metrics, management information and trending reports for period reporting. Performing and reporting on Root Cause Analysis (‘Spot On’) – in identifying risk and driving continuous improvement across the contracts.</td>
</tr>
<tr>
<td>Document and Data Compliance Controller</td>
<td>Lifecycle tracking of contracts – and compiling KPI metrics, management information and trending reports for Contractor Benchmarking, the ECP and Management Reviews. Document and Data compliance communication activities (e.g. newsletter).</td>
</tr>
<tr>
<td>Document Management Team (DTM)</td>
<td>Management and control of all CRL documents, including creation, retention and revision control is compliant and effective. Provide support to Compliance team during the compliance process. Maintain the document control processes and procedures that have been implemented.</td>
</tr>
<tr>
<td>Quality Assurance team</td>
<td>Lead and coordinate the Performance Assurance process and produce and collate the final output reports.</td>
</tr>
<tr>
<td>CRL Programme Controls - Performance Assurance team</td>
<td>Owner of the Performance Assurance Framework (PAF). Facilitate Performance Assurance process and produce the final combined output reports and metrics</td>
</tr>
</tbody>
</table>
Supervisor Rep (PFE) | Monitor the Contractors compliance with respect to Management and Acceptance of Field Documentation Procedure and their own Quality Management procedures. Review and acceptance of Contractor initiated submittals as specified in the CMDL. The establishment and maintenance of the Construction Register and Issue Record (RIR) and the site drawing management system. Ensuring documents received from the Contractor for review and acceptance are returned within the prescribed contractual timeframe.

5 Background

The Technical Information department governs and facilitates general information management within Crossrail.

The prime accountability is within the Programme Directorate; focussing on supporting the creation, management and delivery of information packages supporting the handover requirements to the Infrastructure Manager and Operator.

The department works to generate structured data sets, pro-actively engage with stakeholders and drive compliance the highest management standards.

The Technical Information department is split between the following four groups – with the Document and Data Compliance* team positioned as a sub-group within Information and Compliance:

1. Asset Information and Configuration Management
2. Computer Aided Design (CAD)
3. Geographic Information System (GIS)
4. Information and Compliance:
   I. Document Control
   II. Handover Information
   III. Document and Data Compliance (DDC)*

DDC; the assurance arm of Information Compliance, aims to ensure that the right people are able to retrieve the right information throughout the project's lifecycle. This is achieved through use of dynamic KPIs to drive world class performance in information management and management of document delivery risks and issues.


The strategy was built upon the understanding of current Document Management and Control policies and responsibility landscape, in order to provide a baseline against which compliance could be measured.

The Document and Data Control Compliance strategy extends to all records, documents and data – including Assets, CAD and GIS - but excludes Information Technology and those originating from external stakeholders.

The strategy (fig. 1); outlines the key activities required to achieve the fore-mentioned objectives. Individual processes within the strategy are detailed after.
Document and Data Compliance Strategy (fig. 1):

1. ‘PAF’ Performance Assurance Framework (twice annual reviews - all Central Section Works Tier 1 contracts).
2. Employer’s Completion Process (ECP) – all Central Section Works contracts.
5. eB Metadata Integrity Evaluations.

1. Monthly DDC Dashboard – a more detailed drill down of the TDR Period Reporting (Benchmarking).
2. DDC SharePoint-based Resource portal.

1. Utilising the Crossrail Spot-On tool/ SYs against actions not closed by the beginning of the next assessment window (NCRs raised in line with Project Technical Request (RFI-NCR-FCD) Procedure CRL1-XRL-Z-GPD-CR001-50006).

1. PAF Action Tracker based in Excel – uploaded weekly to eB. The real time tracker is maintained on Sharepoint.
2. ECP Trackers based in SharePoint:
   - Schedule for ECP Management.
   - Employers Completion Process (ECP) Review Points.
   - Employers Completion Process (ECP) Review Points.

Actively following up with actionees, tracking and closing out actions against the relevant trackers (documented and evidenced) – via:
- Email
- Telephone
- Interface with the Delivery team PICs
6  Performance Assurance Framework (PAF) - process

Tier 1 suppliers are evaluated twice annually – each over four reporting periods (1 round), in accordance with CRL1-XRL-Z9-GPD-CR001_Z-50002 Commercial / Performance Assurance Procedure (Reference Document #5).

The focus is on objectively measuring, assessing, supporting and assuring that Tier 1 suppliers are operating to a level of performance that will enable CRL’s performance objectives are met.

The process includes geographically mapping contractor’s performance against each other to drive competition, continuous improvement and world-class behaviours. Results and scores are then communicated across the programme via the CEO Forum and the Construction Industry Group.

Overall accountability sits with CRL Programme Controls - Performance Assurance team. However, the process is led and coordinated by the CRL Quality team – with the relevant CRL functional leads responsible for undertaking assessments in their performance areas.

The Document and Data Compliance team are accountable for requirements against Section 5 of Performance Assurance Framework (PAF) – ‘Document Quality and Control’.

<table>
<thead>
<tr>
<th>PAF Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Continual Improvement Initiative</td>
</tr>
<tr>
<td>2</td>
<td>Quality Department and Audit and Surveillance</td>
</tr>
<tr>
<td>3</td>
<td>Quality Documentation</td>
</tr>
<tr>
<td>4</td>
<td>Design Coordination, Submission, Management</td>
</tr>
<tr>
<td>5</td>
<td>Document Quality and Control</td>
</tr>
<tr>
<td>6</td>
<td>Certification of Works</td>
</tr>
<tr>
<td>7</td>
<td>CRL Satisfaction of Works</td>
</tr>
<tr>
<td>8</td>
<td>Site Tour</td>
</tr>
<tr>
<td>9</td>
<td>Defects - Identified and Costs</td>
</tr>
</tbody>
</table>

The PAF process is sequential, covering the following stages (also illustrated in fig. 2 below):

1. Formal written ‘Notification of Inclusion’ - to contractor (from CRL Quality team).

2. Formal written ‘Notification of assessment dates and coverage’ - to contractor and stakeholders (from CRL Quality team). This includes pre-read information (i.e. objective, scope the framework, major risk items, expectations, agenda/timing and required attendees).

3. Planning meetings with Quality team and functional leads.

4. Qualitative deep-dive review of inputs within the framework – by functional lead. The Document and Data Compliance inputs are also captured in CRL1-XRL-Z3-ZTM-CR001-50008 Compliance Questionnaire (Standard Forms/Templates Ref #A) as follows:
PAF Section 5 – Document Quality and Control

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>MDL and Deliverables - against the contractor’s MDL and the eB CMDL</td>
</tr>
<tr>
<td>b)</td>
<td>Register Issue Record (RIR)</td>
</tr>
<tr>
<td>c)</td>
<td>Material Proposal Schedule and Material Compliance Records</td>
</tr>
<tr>
<td>d)</td>
<td>Document Control (the contractor’s working records):</td>
</tr>
<tr>
<td></td>
<td>• Accuracy (data that is complete, accurate and fit-for-purpose)</td>
</tr>
<tr>
<td></td>
<td>• Accessibility (the right people are able to retrieve the right information throughout the project’s lifecycle)</td>
</tr>
<tr>
<td></td>
<td>• Searchability (indexing / packaging and formatting)</td>
</tr>
<tr>
<td></td>
<td>• Quality (creation, archiving, retention, disposition, security, physical storage, internal controls according to risk)</td>
</tr>
<tr>
<td>e)</td>
<td>Competence, training and awareness (documented evidence of competence on the basis of appropriate education, training or experience)</td>
</tr>
</tbody>
</table>

5. The assessment is conducted on the contract site; with at least 1 Document Control representative (e.g. Controller, Information Manager, PFE or Quality Manager).

6. Validation process - part I (verbal debrief and written draft report of findings and actions; to the contractor for review) – produced by the functional lead. The mail evidence is saved in the shared mailbox “DocDataCompliance@crossrail.co.uk” in the respective contractor’s folder. This is followed by submission to the Quality team for inclusion in the final report.

7. Validation process - part II (final verbal debrief and submission of final written report of findings and actions; to the contractor for sign-off) – produced by the Quality team. The mail evidence is saved in the shared mailbox “DocDataCompliance@crossrail.co.uk” in the respective contractor’s folder.

8. Quantitative metric review of outputs – produced by the functional lead. The Document and Data Compliance outputs (findings, actions, KPI metrics, trending and scoring); are captured in CRL1-XRL-Z3-LLG-CR001-50007 Compliance Review Findings Tracker (Reference Document #8).

9. Final report (combined scores plotted on a graph by project, function and contractor reference) are produced by the Performance Assurance team. This provides an effective gauge for measuring performance improvement across contracts, against each other and from review period to review period.

10. Submission of Functional Summary to the Quality team - by functional lead in evaluation of:
    a) Actions raised across the assessed contracts and contractors – trending analysis
    b) Top three scoring contracts
    c) Bottom three scoring contracts
    d) Analysis of risk areas
    e) Recommendations / opportunities for business improvements
PAF process (fig. 2):

Performance Assurance Framework (PAF) - process

- Review framework
- Provide supporting data (prior to review)
  - Undertake review
  - Integrate verbal briefing of findings

- Input into framework
  - Prepare Questionnaire
  - Gather supporting data
  - Run all document lifecycle tracker

- Coordinate and collate framework inputs
- Planning:
  - Scheduling / Calendar
  - Appointments

- Undertake review
  - Final verbal briefing of findings

- Produce written briefing
  - Scoring and Functional report

- Produce and collate final report
  - Scoring, Functional report and Collation

- Facilitate the review process
- Produce Performance Assurance Final report
Contractors are expected to close out the actions prior to the next assessment window. Higher scores are awarded to contracts which close out all actions within the first 3 months post final sign-off by the Contractor’s Project Manager/Project Director (or other delegated authority).

Any remaining actions still open by the beginning of the next by the next assessment window, shall be classed as ‘overdue’, and revisited accordingly.

Contractors are required to submit evidence or suitable verification to close out actions. Actions are actively followed up via email, telephone or directly with the DMT - and documented in CRL1-XRL-Z3-LLG-CR001-50007 Compliance Review Findings Tracker; as follows:

- On time versus late actions.
- Open versus closed actions.
- Class versus sub-classes of action.

Actions pertaining to procedural requirements not addressed by the contractor by the next assessment window, shall incur an NCR – in accordance with CRL1-XRL-Z-GPD-CR001-50006 Project Technical Request (RFI-NCR-FCD) Procedure (Reference Document #9). This may be followed by a Root Cause Analysis (‘Spot-On’).

Recommendations may also be fed through to the CRL Audit team; in line with CR-XRL-O-GPD-CR001-50002 Audit Procedure (Reference Document #13).

Lessons learned shall be captured in the Compliance Review Findings Tracker CRL1-XRL-Z3-LLG-CR001-50007 and used to:

- Highlight training gaps – to the Delivery and Learning & Development teams.
- Support Management Reviews – to the Quality team.
- Provide focus for the next review round – internally within function.
- Identify potential risks to contract completion – applied against CRL1-XRL-O4-GPD-CR001-50018 Employer’s Completion Process ‘ECP’ (Reference Document #10) – to the Completion Manager.
- Recommendations / opportunities for business improvements – to the Head of Technical Information.
7 The Employer’s Completion Process ‘ECP’

The Employer’s Completion Process ‘ECP’ CRL1-XRL-O4-GPD-CR001-50018 (Reference Document #10); demonstrates that CRL has exercised due diligence prior to acceptance of the Crossrail Central Section Works Contracts. These are certified by the Delivery Team and Contractors as being complete and compliant with the requirements of the Programme, Works Information and relevant Third Party requirements.

The ECP also supports the formal issue of contract defects / outstanding works lists.

The ECP comprises Contract Closeout Checklists covering each of the business groups. However, it is important to note that the commercial close out of the Contracts, including any settlements, final accounts, reconciliation of CRL financial systems (SAP, PRISM etc.) is independent of the ECP and covered separately by Crossrail corporate.

It is the responsibility of the Document and Data Compliance team to collate and sign off the Technical Information checklist (CRL1-XRL-O4-ZTM-CR001-50036 Form C9 – Contract Closeout Checklist, below (Standard Forms/Templates Ref #B):

Ahead of the formal ECP, there is an upstream (front-end) Document and Data Compliance process in place. This provides conjecture on readiness for completion and/or handover – thereby allowing risks and potential delays to be highlighted in good time to the Completion Manager and Delivery teams.

The upstream (front-end) process is as follows:

All contracts are subject to ECP evaluations; against the forecasted programme completion schedule located in SharePoint (owned by the Completion Manager): http://directorates.crossrail.co.uk/sites/Technical/quality/Employer%20Completion%20Process

Status is documented in CRL1-XRL-Z3-ZTM-CR001-50019 Document and Data Compliance Evaluation Form and uploaded to eB (Standard Forms/Templates Ref #C).

IMPORTANT: Each contract must have its own uniquely referenced evaluation report (based on above template) – which is up-revised in eB after each review point.
ECP evaluation work flow:

a) Contractor's current MDL dated within 4 weeks?
   - N
   - Y

   b) Is the Contractor's MDL complete?
      - Y
      - N

   c) - d) Is the eB CMDL complete?
      - Y
      - N

   e) Outstanding PAF actions?
      - Y
      - N

   f) Outstanding Audit actions?
      - Y
      - N

   g) Outstanding Delivery actions?
      - Y
      - N

- Complete report
- Sign off
- Upload to eB and SharePoint
**ECP Evaluation - a)-g) flow chart guide:**

a) Is the contractor's most current submitted and accepted MDL dated within 4 weeks? Are there any Comments Sheets issues?

> ‘…The Contractor shall review and submit the CMDL periodically as agreed with the Project Manager with final acceptance of the CMDL being granted on Completion or as necessary, on or around the defects date…’ [13.3.1 Deliverables and Records - Works Information Volume 2B]

b) In the contractor's MDL… Are documents clearly identifiable? What is the total number of CRL deliverables? For each CRL deliverable; have dates been forecasted and is the approval status clear? (i.e. draft / review / cancelled / superseded)?

> ‘…The CMDL shall: include a programme for the production and submission of deliverables… identify those deliverables which require approval from Others…’ [13.3.1 Deliverables and Records - Works Information Volume 2B]

c) Using the eB Document Lifecycle Tracker for the contract… Have all CRL deliverables been identified and populated in eB? Is there a discrepancy within eB against the contractor's MDL?

> ‘…The Employer shall provide the Contractor access to EDMS for loading and managing documents and to record certain contract deliverables. (see 13.4 below). The Contractor shall be responsible for the management, operation, training of personnel and for all data input into the system… Records shall be collated, packaged, indexed and submitted by the Contractor in a phased manner for each element, structure, activity or section in accordance with Works Information…’ [13.3.4 Deliverables and Records - Works Information Volume 2B]

d) Ask the following questions using the eB Document Lifecycle Tracker for the contract:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Number of Current Revision Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accepted by CRL - code 1 or 4 (DELIVERED)</td>
<td></td>
</tr>
<tr>
<td>Not accepted / Rejected by CRL - code 2 or 3</td>
<td></td>
</tr>
<tr>
<td>• Has reasonable time elapsed since return to the contractor?</td>
<td></td>
</tr>
<tr>
<td>• Where is the holdup?</td>
<td></td>
</tr>
<tr>
<td>Unassigned (submitted to CRL - but uncoded):</td>
<td></td>
</tr>
<tr>
<td>• Have they been assigned an MDL code?</td>
<td></td>
</tr>
<tr>
<td>• Where is the holdup?</td>
<td></td>
</tr>
<tr>
<td>Placeholders (unsubmitted and uncoded):</td>
<td></td>
</tr>
<tr>
<td>• Have the Planned and Forecast dates elapsed</td>
<td></td>
</tr>
</tbody>
</table>


f) In accordance with the Works Information Volume 2B (pt. 20 Quality Management)…. Are there any outstanding Audit actions? This may be checked in the Audit team's tracker:

---

Are there any Deliver actions? Collaboration with the Delivery team PICs - through information sharing of their own site-surveillance activities and findings, plus feeding back their actions through the DDC – Contract Monitoring database. 1-2-1 meetings with the Delivery team PIC are scheduled for each review point.
1. Upon completion of the final ECP Review Point Evaluation… the Technical Information checklist (CRL1-XRL-O4-ZTM-CR001-50036 Form C9 – Contract Closeout Checklist); may be completed and signed off – in line with the formal CRL1-XRL-O4-GPD-CR001-50018 Employer’s Completion Process.

2. The above final ECP Review Point Evaluation report and signed Technical Information checklist; must then be forwarded by email; to the Completion Manager – copying in the Head of Technical information (email structure below):

Dear [Completion Manager],

RE: Employer’s Completion Process (ECP): [Contract / Site]

In accordance with CRL1-XRL-O4-GPD-CR001-50018 Employer’s Completion Process - Procedure (Rev ?)… please find attached our signed; Contract (Form C9 - Contract Closeout Checklist - Technical Information) mm/yy, with the following supporting documents:

- **Contract CMDL - Contractors Master Deliverable List (Rev ?)…** eB ref
- **Contract Outstanding Works and Snagging List (Rev ?)…** eB ref
- **Contract Whole Contract Construction Certificate (Rev ?)…** eB ref

These satisfy the Technical Information requirements of the Crossrail Employer’s Completion Process (ECP).

Copied into this email are:

- Head of Technical Information
- Information and Compliance Manager – Technical Information

Regards,

[Signed – Document and Data Compliance team]  
Crossrail

3. A copy of both forms above must be retained in:

   - The Document and Data Compliance SharePoint site (DDC – Employer’s Completion Process Tracker) –

   - The ECP ring binder (hard copy).

8   **Handover**

8.1 **Handover Readiness**

   The Handover Readiness is managed according to the below procedures:

   - **CRL1-XRL-Z3-STP-CR001-50015** Crossrail Handover Information Plan (Reference Document #11)
   - **CRL1-XRL-K1-STP-CR001-50001** Handover Strategy and Plan (Reference Document #14)
8.2 Handover Assurance

8.2.1 Purpose

Provision of validation data to the Crossrail Handover team and Central Section Delivery team - in support of IM acceptance.

8.2.2 Process

For each contract, the following 'layers' or 'tiers' of assurance are reported in the Document & Data Compliance (DDC) team SharePoint site:

- **Audit**
  - Compliance (Contract Monitoring, PAFs, ECPs)
- **Compliance**
  - Monitoring/Surveillance (Site Visit Evaluations)
- **Review and Acceptance**

The report feeds from the following assurance elements, against the package list provided by the Report Recipient* (if applicable):

- CARs data is owned by the Crossrail Audit team:
  - [http://directorates.crossrail.co.uk/sites/Technical/Audit/CAR%20Tracker/Forms/AllItems.aspx](http://directorates.crossrail.co.uk/sites/Technical/Audit/CAR%20Tracker/Forms/AllItems.aspx)
- Compliance data is owned by the DDC team:
- Site Visit Evaluations are performed and tracked by Delivery - Central Section: [CRL1-XRL-Z3-LLG-CRG03-50002](http://directorates.crossrail.co.uk/sites/Technical/technicalinformation/InformationCompliance/compliance/SitePages/DDC%20-%20Home.aspx)
- Coding 1-4 (eB Lifecycle Tracker report)
  - I. Technical content approval (signed decal)
  - II. eB approval (metadata)
Handover Assurance reporting specifications:

<table>
<thead>
<tr>
<th>Name of Report</th>
<th>Handover team</th>
<th>Central Section Delivery team</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIRP (CRL Handover Review Points 1-4)</td>
<td>Progressive Acceptance</td>
<td></td>
</tr>
</tbody>
</table>

**Documents Scope**

- **Handover team**
  - Deliverable ✓
  - Current revision ✓
  - Obsolete / Cancelled ×
  - CMDL code ✓
  - HMDL code ×
  - Sectional Completion ×
  - Full Completion (ECP) ×
  - Defined Package List ×

- **Central Section Delivery team**
  - Deliverable ✓
  - Current revision ✓
  - Obsolete / Cancelled ×
  - CMDL code ✓
  - HMDL code ✓
  - Sectional Completion ✓
  - Full Completion (ECP) ×
  - Defined Package List ✓

**Additional report requirements**

- **Handover team**
  - Monitoring & Surveillance ×
  - Compliance report ×
  - Open Audit CARs ×
  - Open NCRs ×
  - Open PAF actions ×

- **Central Section Delivery team**
  - Monitoring & Surveillance ✓
  - Compliance report ✓
  - Open Audit CARs ✓
  - Open NCRs ✓
  - Open PAF actions ✓

**Frequency of reporting**

- **Handover team**
  - As per CHIRP Schedule (owner: )

- **Central Section Delivery team**
  - As per Progressive Acceptance Schedule (owner: )

**Applicable reference(s) and procedure(s)**

- **Handover team**
  - CRL1-XRL-Z3-STP-CR001-50015 Crossrail Handover Information Plan

- **Central Section Delivery team**
  - CRL1-RFL-C-GPD-CR001-50002 RfL Progressive Acceptance Procedure for Civil & Structures Assets

**Target dates for submission of reports**

- **Handover team**
  - As above - ‘Frequency of reporting’

- **Central Section Delivery team**
  - As above - ‘Frequency of reporting’

**DDC Report templates**

- **Handover team**
  - CHIRP Report Template_ddMMMyy.

- **Central Section Delivery team**
  - DDC Handover Assurance Reports: [link]

**Report Recipient**

- **Handover team**
  - Information and Compliance Manager
  - Technical – Information & Compliance

- **Central Section Delivery team**
  - Data & Asset Transfer Manager
  - Delivery - Central Section
9 Reference Documents

<table>
<thead>
<tr>
<th>#</th>
<th>Document Title</th>
<th>eB / Other Reference</th>
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<tbody>
<tr>
<td>2</td>
<td>Technical Assurance Plan (TAP)</td>
<td>CRL1-XRL-O7-STP-CR001-50003</td>
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<td>3</td>
<td>Crossrail BIM Principles</td>
<td>CR-XRL-Z3-RGN-CR001-50005</td>
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<td>4</td>
<td>BS EN ISO 9001:2008</td>
<td><a href="CRL1-XRL-Z3-ZTM-CR001-50008">CRL1-XRL-Z3-ZTM-CR001-50008</a></td>
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<td>5</td>
<td>Commercial / Performance Assurance Procedure</td>
<td>CRL1-XRL-Z9-GPD-CR001_Z-50002</td>
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<td>6</td>
<td>Works Information Volume 2B (Civils / Construction)</td>
<td>CRL1-XRL-V3-XWI-CR001-50035</td>
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<td>7</td>
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<td>8</td>
<td>Compliance Review Findings Tracker</td>
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<td>Project Technical Request (RFI-NCR-FCD) Procedure</td>
<td>CRL1-XRL-Z-GPD-CR001-50006</td>
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<td>10</td>
<td>Employer’s Completion Process “ECP”</td>
<td>CRL1-XRL-O4-GPD-CR001-50018</td>
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<td>11</td>
<td>Crossrail Handover Information Plan</td>
<td>CRL1-XRL-Z3-STP-CR001-50015</td>
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<td>12</td>
<td>Contract Document and Data Compliance Benchmarking and Performance Summaries Presentation</td>
<td>CRL1-XRL-Z-MDA-CR001-50006</td>
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<td>13</td>
<td>Audit Procedure</td>
<td>CR-XRL-O-GPD-CR001-50002</td>
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<td>14</td>
<td>Handover Strategy and Plan</td>
<td>CRL1-XRL-K1-STP-CR001-50001</td>
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<td>15</td>
<td>RfL Progressive Acceptance Procedure for Civil &amp; Structures Assets</td>
<td>CRL1-RFL-C-GPD-CR001-50002</td>
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10 Standard Forms / Templates

<table>
<thead>
<tr>
<th>Ref</th>
<th>Document Title</th>
<th>Document Number</th>
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<tr>
<td>A.</td>
<td>Compliance Questionnaire</td>
<td>CRL1-XRL-Z3-ZTM-CR001-50008</td>
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<td>B.</td>
<td>Form C9 - Employer’s Completion Process Form - Technical Information</td>
<td>CRL1-XRL-O4-ZTM-CR001-50036</td>
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<td>C.</td>
<td>Document and Data Compliance Evaluation Form</td>
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11 Appendices

None