

# RFLI - Rail for London (Infrastructure) Ltd

---

**Document Number:** RFLI-TIM-PE-OPR-0002

**Revision:** 2.1

**Revision Date:** November 2018

---

## **Crossrail Central Operating Section Engineering Access Statement 2019**

**Applicable from Sunday 9th December 2018 to Saturday 14th December 2019**

---

Issued by Network Strategy and Performance  
**Rail for London (Infrastructure) Ltd.**  
5 Endeavour Square  
Stratford London  
E20 1JN

Email: [RFLaccessplanning@tfl.gov.uk](mailto:RFLaccessplanning@tfl.gov.uk)

[tfl.gov.uk](http://tfl.gov.uk)

## Document History

Revision	Date	Change
2.0 (v4)	16/10/2018	Validity period extended to align with NR. Revisions to accommodate Crossrail programme opening stage revision. Section 4: Timetable Period B timings amended; overnight possession available Pudding Mill Lane – Stepney Green. Section 7: 2x52Hour possessions included.
2.1 (v4)	20/11/2018	Address updated.

## Record of Holds in Document

Specify any Holds within the document.

Hold No	Section	Description of Hold	

## Revision Tracking

Specify significant change from previous revisions of the document. (From Rev. 1.0 onwards)

Revision	Section	Description of Change	
1.0 (v1)	4 and 7	First Issue: Proposal	
2.0 (v4)	4	Timetable Period timings amended.	
2.0 (v4)	7	2x52Hour possessions included.	

## Contents

<b>1. INTRODUCTION</b>	<b>4</b>
1.1 Purpose	4
1.2 Scope	4
1.3 Reference Documentation	4
1.4 Applications for Possessions	4
1.5 Specific Planning Arrangements	5
1.6 Train Operating Company Consultation	5
1.7 Timetable Periods	5
1.8 Key Timetable Event Dates	6
1.9 Bank Holidays	6
1.10 Daylight saving time	6
1.11 Major London Events in the CCOS EAS Period	7
1.12 Change Procedure	7
1.13 Changes Initiated by Train Operating Companies	7
1.14 Changes Initiated by RFLI	8
1.15 Response by TOCs	8
1.16 Decision by RFLI	8
<b>2. GLOSSARY</b>	<b>9</b>
<b>3. GUIDELINES FOR GRANTING POSSESSIONS</b>	<b>9</b>
3.1 Information Required from requestors when submitting Possession Requests	9
3.2 Late Possession Requests	10
<b>4. STANDARD POSSESSION OPPORTUNITIES</b>	<b>11</b>
<b>5. POSSESSION STRATEGY</b>	<b>12</b>
5.1 Possessions Under Possession Strategy Notice	12
<b>6. (SECTION NOT USED)</b>	<b>13</b>
<b>7. REGISTER OF POSSESSIONS</b>	<b>14</b>
7.1 Possessions Planned in Traffic Hours	14

## 1. INTRODUCTION

### 1.1 Purpose

- 1.1.1 The purpose of this document is to define the Engineering Access Statement (EAS) for the Crossrail Central Operating Section (CCOS) for the period commencing Sunday 9th December 2018 to Saturday 14th December 2019.
- 1.1.2 CCOS EAS defines the standard times during which inspection, maintenance and renewal activities will take place and identifies occasions when additional works will be necessary during traffic hours for for such work to be undertaken.
- 1.1.3 This EAS has been prepared in accordance with Rail for London (Infrastructure) Limited (RFLI) CCOS Network Code (clause D2.2) and meets the requirements of CRL1-XRL-O8-RSP-CR001-50015 (Rev 4.0) Crossrail Programme Functional Requirement Baseline 7.0 (CPFR).

### 1.2 Scope

- 1.2.1 This document is applicable to the CCOS owned and operated by RFLI.

### 1.3 Reference Documentation

- 1.3.1 CCOS Network Code Part D (Timetable Change)
- 1.3.2 CRL1-XRL-O8-RSP-CR001-50015 - Crossrail Programme Functional Requirement Baseline 7.0
- 1.3.3 CCOS Rule Book - Module COS/T3
- 1.3.4 RFLI-GEN-SD-SDD-0001- Principles, Timescales and Functional Responsibilities for CCOS Engineering Access Planning

### 1.4 Applications for Possessions

- 1.4.1 Applications for possessions should be made at all times in accordance with RFLI's possession planning process. For particular details of the mechanism for applying for possessions, contact the RFLI Network Strategy and Performance (NS&P) team.
- 1.4.2 The information required at the application stage is provided in clause 3.1 below.
- 1.4.3 Sequence of activities:
- Continuous Engineering Access Planning (a 5 year rolling horizon)
  - TT-61 to TT-45 Develop and publish CCOS EAS
  - T-44 to T-26 Build the Period Possession Plan
  - T-26 to T-12 Amend the Weekly Timetable
  - T-12 to T-4 Finalise the Weekly Delivery Plans
  - T-4 to T-0 Make network available for Short Term Plan (STP) services

## 1.5 Specific Planning Arrangements

- 1.5.1 Possessions within the times defined in Section 4 of this document must be given up for the passage of Structure Gauging, Ultrasonic Test, or other infrastructure measurement and testing trains as determined by RFLI.
- 1.5.2 Production timetable planning teams must receive confirmation from the RFLI NS&P Team prior to submitting a train schedule that runs foul of possessions in the CCOS EAS.
- 1.5.3 To deliver the operational objectives stated in CCOS Network Code Part H, before requesting a disruptive possession, consideration should be given to:
- potential alternative approaches to avoid the need for a disruptive possession;
  - making safe use of bi-directional working (subject to platform crowd management);
  - use of an existing possession;
  - releasing parts of the line during a possession (e.g staggered start and finish times for each line); or
  - Using fewer longer or more shorter possessions.

## 1.6 Train Operating Company Consultation

- 1.6.1 **CCOS Draft Period Possession Plan (CCOS DPPP).** Every 4 weeks a detailed programme of proposed engineering works covering 4 weeks will be issued as the CCOS DPPP at least 28 weeks before the start of the 4 weeks concerned. This will contain details of proposed disruptive possessions, together with any non-disruptive possessions.
- 1.6.2 **CCOS Confirmed Period Possession Plan (CCOS CPPP).** A CCOS CPPP will be issued 26 weeks prior to the start of the relevant 4 weekly period giving sufficient details of planned disruptive possessions to enable an assessment of train alterations to be made. RFLI will advise details of Disruptive Possessions at this stage as part of the Informed Traveller process.
- 1.6.3 **Trains Meetings.** In certain instances, prior to the conclusion of TOC consultation, RFLI may arrange a Trains Meeting for all affected TOCs. This is most likely where a particular possession, or series of possessions, will result in significant train alterations. Trains meetings will be held to:
- outline the likely disruptive effects;
  - determine train alterations required; and
  - agree an outline train plan
- 1.6.4 A TOC may request a meeting with RFLI to discuss concerns arising from 1.6.3.
- 1.6.5 In constructing their Access Proposals, TOCs should take into account the capacity constraints noted. Where any form of reduced track capacity is indicated in this CCOS EAS, it applies between adjacent crossovers only, unless such work can be accommodated within the time allowances shown in CCOS TPR.
- 1.6.6 If a TOC wishes to make a Spot Access Proposal or protect the slot of an existing train slot which is not compliant with this CCOS EAS, it should first consult with RFLI NS&P Team to establish whether an amendment is likely to be agreed and, if appropriate, submit an amendment proposal which will be considered by RFLI in accordance with clause 1.6.2 above. The CCOS EAS amendment proposal should be submitted to RFLI as early as possible or with the submission of the Spot Access Proposal.

1.6.7 With the exception of emergency possessions, planned possessions shall be agreed 26 weeks in advance of the relevant week. After this time RFLI will usually support an CCOS EAS amendment proposal to allow acceptance of a Spot Access Proposal which does not conflict with planned possessions. Where a Spot Access Proposal relates to the carriage of exceptional numbers of passengers in connection with a sporting or other public event, RFLI recognises that it may be appropriate to cancel possessions to allow the Spot Access Proposal to be accepted.

## 1.7 Timetable Periods

1.7.1 The table in 1.7.2 below specifies the standard engineering timetable periods which correspond with the commencement of public service on CCOS (Opening Stage 3) and with Opening Stage 4.

1.7.2 Timetable period dates:

Timetable Period	Start Date and Time	End Date and Time	Sundays
A	0001 Sun 9/12/2018	2359 Sat 18/05/2019	23
B	0001 Sun 19/05/2019	2359 Sat 07/12/2019	29

## 1.8 Key Timetable Event Dates

1.8.1 Key timetable event dates refer to significant changes to the timetable anticipated in the relevant year.

1.8.2 Significant changes relate but are not limited to changes in rolling stock (e.g. introduction of new types) and infrastructure remodelling.

1.8.3 Significant timetable events affecting CCOS are anticipated<sup>1</sup> as follows:

Date	Event
15/04/2019	CCOS Handover to RFLI
18/05/2019	Triam Operations and Trial Running commences
Autumn 2019	Elizabeth Line Stage 3 Opening (Abbey Wood to Paddington)

## 1.9 Bank Holidays

Date	
Tuesday December 25 <sup>th</sup> 2018	Christmas Day
Wednesday December 26 <sup>th</sup> 2018	Boxing Day
Tuesday January 1 <sup>st</sup> 2019	New Year's Day
Friday April 19 <sup>th</sup> 2019	Good Friday
Monday April 22 <sup>nd</sup> 2019	Easter Monday
Monday May 6 <sup>th</sup> 2019	May Bank Holiday
Monday May 27 <sup>th</sup> 2019	Spring Bank Holiday
Monday August 26 <sup>th</sup> 2019	August Bank Holiday

## 1.10 Daylight saving time

1.10.1 Spring (1 hour forward, British Summer Time): Sunday, March 10, 2019, 2:00 am

<sup>1</sup> Unconfirmed and subject to revision based upon Crossrail Programme Master Handover Schedule

1.10.2 Autumn (1 hour back, Greenwich Mean Time): Sunday, November 3, 2019, 2:00 am.

### 1.11 Major London Events in the CCOS EAS Period

1.11.1 Major events affecting the London Area are co-ordinated with the TfL Events and Closures team.

1.11.2 Current known events anticipated in the 2019 CCOS EAS period are provided in the table below:

Wk No	Start Date	End Date	Type of Event	Venue	Event	Start and End Times	Soft/Hard Start	Soft/Hard Finish	Expected Attendance	Nearest Station(s)
33	Sat 09 Nov 2019	Sat 09 Nov 2019	Cultural	City of London	Lord Mayor's Show	1100 to 1430	Soft	Soft	Upto 500,000	Farringdon Liverpool Street

### 1.12 Change Procedure

1.12.1 The Change Procedure has been devised in accordance with CCOS Network Code Condition D 2.2.7 to provide a means of CCOS EAS and/or CCOS TPR other than through the twice-yearly process having effect from the Passenger Change Dates.

1.12.2 It overrides interim arrangements included within TOC Track Access Agreements and Operational Planning Rules documents.

1.12.3 This procedure will be used by RFLI to add, substitute or delete engineering access opportunities contained within CCOS EAS. All possessions so agreed will be regarded as being within CCOS EAS.

1.12.4 RFLI is committed to the achievement of the Informed Traveller deadlines allowing details of amended train services to be available 12 weeks before the date of operation.

1.12.5 RFLI will consult with TOCs regarding possessions and other capacity restrictions which are disruptive to agreed train slots in sufficient time to allow details of those disruptive possessions to be included in a CCOS Confirmed Period Possessions Plan which will be published 26 weeks prior to the start of each 4-week period.

1.12.6 Where a need arises to amend CCOS EAS to cater for an urgent safety requirement or other emergency situations, all parties concerned will co-operate in accelerating the normal timescales in this Procedure commensurate with the urgency of the circumstances.

### 1.13 Changes Initiated by Train Operating Companies

1.13.1 A TOC may propose changes to any part of CCOS EAS/CCOS TPR affecting or likely to affect that TOC.

1.13.2 The TOC shall submit a written statement of the proposed change and a concise explanation of the reasons for that change to the Network Access Planning Manager, who will acknowledge receipt within 5 working days of receipt of the proposed change.

1.13.3 RFLI shall notify all affected TOCs details of the proposed change and RFLI's comments including concise reasons for the change and a statement as to whether RFLI supports the proposal.

## **1.14 Changes Initiated by RFLI**

- 1.14.1 RFLI may propose changes to any part of this CCOS EAS.
- 1.14.2 RFLI shall notify to all TOCs affected details of the proposed change including a concise explanation of its reasons including dependancies on adjacent Infrastructure Managers.
- 1.14.3 Proposed changes to CCOS EAS arising before publication of the Draft Period Possessions Plan (DPPP) shall be notified by RFLI in a single consolidated document to be issued each 4 weeks.

## **1.15 Response by TOCs**

- 1.15.1 Each TOC receiving notification of a proposed change in accordance with paragraphs 1.14.2 or 1.14.3 above will consider that proposal and respond to RFLI within 5 working days from receipt of the notification, indicating:
  - 1. its agreement to the proposed change; or
  - 2. details of a counter-proposal and an explanation of its rationale.
- 1.15.2 Any TOC whose response is not received by RFLI within 5 working days will be deemed to have agreed to the proposed change and will forfeit any right of Appeal.

## **1.16 Decision by RFLI**

- 1.16.1 RFLI shall give due consideration to responses received from TOCs in accordance with paragraph 1.15.1 above and shall decide which changes, if any, should be made to CCOS EAS.
- 1.16.2 RFLI shall have due regard to the Decision Criteria provided in CCOS Network Code Condition D6.
- 1.16.3 RFLI will notify its decision to each affected TOC within 5 working days of the last date for receipt of responses under paragraph 1.15.2 above.
- 1.16.4 A TOC may Appeal in accordance with CCOS Network Code Condition D2.2.7.
- 1.16.5 Any Appeal must be referred to the Access Disputes Secretary in accordance with the timescales shown in Condition D5 (i.e. within 5 working days of notification by RFLI of its decision).



## 2. GLOSSARY

Abbreviation	Description
CCOS	Crossrail Central Operating Section
CPPP	Confirmed Period Possession Plan
DPPP	Draft Period Possession Plan
EAS	Engineering Access Statement
EPA	Engineering Protection Area
ES	Engineering Supervisor
NR	Network Rail
OTP	On track plant
PICOP	Person in Charge of a Possession
PON	Period Operating Notice
RfL	Rail for London
RFLI	Rail for London Infrastructure Ltd.
STP	Short Term Plan
TfL	Transport for London
TOC	Train Operating Company
TPR	Timetable Planning Rules
TSR	Temporary Speed Restriction
WON	Weekly Operating Notice
WTT	Working Timetable

## 3. GUIDELINES FOR GRANTING POSSESSIONS

### 3.1 Information Required from requestors when submitting Possession Requests

3.1.1 The following detailed information will be required from requestors when submitting Possession requests:-

- Proposed date, start and finish time of worksites and possessions;
- Proposed method of protection including the Engineering Protection Areas (EPA) to be created and their reference numbers listed;
- Geographical extent of the possession (as shown in Sectional Appendix) and worksite location (in km and m);
- Start and finish times and geographical extent (as shown in the Sectional appendix) of electrical isolation (if required);
- Tunnel ventilation modes and applicable arrangements;
- The extent of any Transit Zone (if required)
- Loss of, or reduction in, any signalling facilities affected outside the Possession Outline infrastructure train requirements;
- The movement of any engineering or on-track plant (OTP) requirements (in detailed form rather than outline if at less than 32 weeks) and if a possession zone is to be imposed around a stationary engineering train;
- Any protective speed restriction to be imposed on adjacent lines which are open;
- Reduction in available platform capacity (including actual length of platform available, platform screen doors and any special instructions to be given to train drivers);

- Effect on access to other facilities;
- Significant traction current supply or voltage reductions;
- Affected electrical feed equipment;
- Any restrictions which will persist after the Possession is given up;
- If a Temporary Speed Restriction (TSR) is to be imposed on the line affected after the Possession is given up the following should be advised:
  - Speed;
  - location (precise start and finish); and
  - date and time of removal;
- Details of any ventilation system restrictions that will remain in force with the following advised:
  - location (e.g. shaft, affected section); and
  - date and time of removal;
- Work content; and
- Details of operational telecommunications disconnections.
- At TW-12, the following additional details should be provided for incorporation in the Weekly Operating Notice (WON):
  - The name of the Person in Charge of the Possession (PICOP);
  - The name of the Engineering Supervisor (ES);
  - The ID of the last train to operate prior to the possession being taken; and
  - The ID of the first train to operate after the possession has been given up.

### 3.2 Late Possession Requests

- 3.2.1 The procedure to enable an amendment of the Operational Planning Rules, following their finalisation in accordance with Condition D2.2 of the CCOS Network Code, is set out in the CCOS TPR 11.3.

## 4. STANDARD POSSESSION OPPORTUNITIES

Track Section	Direction	Period	Midweek Nights			Saturday Night into Sunday Morning			Sunday Night into Monday Morning		
			Start	End	Duration	Start	End	Duration	Start	End	Duration
Royal Oak Portal to Stepney Green Junction	Eastbound	A	00:05	05:25	05h20m	00:05	07:35	07h35m	00:05	05:25	05h20m
		B	00:05	05:25	05h20m	00:05	07:35	07h35m	00:05	05:25	05h20m
Stepney Green Junction to Pudding Mill Lane Portal	Eastbound	A	00:45 (06:45SX)	05:50 (23:00SX)	05h05m (16h15m <sup>2</sup> )	00:45 (06:45Sa)	07:35 (23:00Sa)	06h50m (16h15m <sup>1</sup> )	00:00 (08:45Su)	05:50 (23:00Su)	06h50m (14h15m <sup>1</sup> )
		B	00:45 (06:45SX)	05:50 (23:00SX)	05h05m (16h15m <sup>1</sup> )	00:45 (06:45Sa)	07:35 (23:00Sa)	06h50m (16h15m <sup>1</sup> )	00:00 (08:45Su)	05:50 (23:00Su)	06h50m (14h15m <sup>1</sup> )
Stepney Green Junction to Victoria Dock Portal	Eastbound	A	00:05	05:35	05h30m	00:05	07:50	07h45m	00:05	05:35	05h30m
		B	00:05	05:35	05h30m	00:05	07:50	07h45m	00:05	05:35	05h30m
Custom House to Plumstead Portal	Eastbound	A	00:05	05:40	05h35m	00:05	07:55	07h50m	00:05	05:40	05h35m
		B	00:05	05:40	05h35m	00:05	07:55	07h50m	00:05	05:40	05h35m
Plumstead Portal to Abbey Wood	Both directions	A	00:10	05:25 (05:55)	05h15m (05h45m) <sup>3</sup>	00:10	07:50 (08:20) <sup>1</sup>	07h40m (08h10m) <sup>2</sup>	00:10	05:25 (05:55)	05h15m (05h45m) <sup>2</sup>
		B	00:10	05:25 (05:55)	05h15m (05h45m) <sup>2</sup>	00:10	07:50 (08:20) <sup>1</sup>	07h40m (08h10m) <sup>2</sup>	00:10	05:25 (05:55)	05h15m (05h45m) <sup>2</sup>
Plumstead Portal to Custom House	Westbound	A	00:10	05:40	05h30m	00:10	07:55	07h45m	00:05	05:40	05h35m
		B	00:10	05:40	05h30m	00:10	07:55	07h45m	00:05	05:40	05h35m
Victoria Dock Portal to Stepney Green Junction	Westbound	A	00:15	05:50	05h35m	00:15	08:10	07h55m	00:15	05:50	05h35m
		B	00:15	05:50	05h35m	00:15	08:10	07h55m	00:15	05:50	05h35m
Pudding Mill Lane Portal to Stepney Green Junction	Westbound	A	00:20 (06:45SX)	05:30 (23:00SX)	05h10m (14h15m <sup>1</sup> )	00:20 (06:45Sa)	07:15 (23:00Sa)	06h55m (16h15m <sup>1</sup> )	23:35 (08:45Su)	05:30 (23:00Su)	05:55 (14h15m <sup>1</sup> )
		B	00:20 (06:45SX)	05:30 (23:00SX)	05h10m (14h15m <sup>1</sup> )	00:20 (06:45Sa)	07:15 (23:00Sa)	06h55m (16h15m <sup>1</sup> )	23:35 (08:45Su)	05:30 (23:00Su)	05:55 (14h15m <sup>1</sup> )
Stepney Green Junction to Royal Oak Portal	Westbound	A	00:35	05:40	05h05m	00:35	07:50	07h15m	00:35	05:40	05h05m
		B	00:35	05:40	05h05m	00:35	07:50	07h15m	00:35	05:40	05h05m

<sup>2</sup> Day time access available between the times indicated provided a route to Old Oak Common via Royal Oak Portal is available for traffic. Possessions to be given-up in the event of operational contingencies being applied

<sup>3</sup> Time of possession allowed if the isolation section at Abbey Wood is given up 30minutes prior to the start of service. This is to allow units to build up air when stabled at Abby Wood

## **5. POSSESSION STRATEGY**

### **5.1 Possessions Under Possession Strategy Notice**

There are currently no proposed Possession Strategy Notices issued under CCOS Network Code Clause D6.1.

## 6. (SECTION NOT USED)

## 7. REGISTER OF POSSESSIONS

### 7.1 Possessions Planned in Traffic Hours

7.1.1 Maintenance and renewal of assets and systems are planned to be carried out within the scope of the times given in Section 4 above and during traffic hours possessions limited to a maximum of two 52 hour closure periods per annum (refer to Crossrail Programme Functional Requirements CPFR5039 and CPFR5040).

7.1.2 Shorter possession periods planned in traffic hours may be taken up to a total of 104 hours per annum.

7.1.3 Possessions planned for traffic hours during the timetable year are provided in the table below:

Possession Reference Number	Line of Route	Possession Location			Protection Type	Possession Date and Time		Traffic Remarks	Work Type
		From	To	Blocked Line		Start	End		
TBC	XR001	Royal Oak Portal	Pudding Mill Lane Portal	All Lines	Possession	03/08/19 01:10 Sat	05/08/19 05:00 Mon	52 HOURS ALL LINES POSSESSION. BLOCK TO ELECTRIC TRACTION.	VENTILATION SYSTEM SCHEDULED MAINTENANCE
	XR002	Stepney Green Junction	Victoria Dock Portal	All Lines	Possession	03/08/19 01:10 Sat	05/08/19 05:00 Mon		
TBC	XR001	Royal Oak Portal	Pudding Mill Lane Portal	All Lines	Possession	05/10/19 01:10 Sat	07/10/19 05:00 Mon	52 HOURS ALL LINES POSSESSION. BLOCK TO ELECTRIC TRACTION.	VENTILATION SYSTEM SCHEDULED MAINTENANCE
	XR002	Stepney Green Junction	Victoria Dock Portal	All Lines	Possession	05/10/19 01:10 Sat	07/10/19 05:00 Mon		