

BD MIN 180426

CROSSRAIL BOARD

Minutes of the Meeting of the Board of Directors of Crossrail Limited Held on Thursday 26 April 2018 at 13:15 28th Floor Boardroom, 25 Canada Square, Canary Wharf, London E14 5LQ

Members:	In Attendance:	Apologies:
Terry Morgan	Sarah Allen	
Chairman	Head of External Affairs	
Pam Alexander	Funmi Amusu	
Non-executive Director	Assistant Company Secretary	
Michael Cassidy	Dawn Barker	
Non-executive Director	Head of Human Resources	
Mathew Duncan	Mark Fell	
Finance Director	Legal Services Director and	
	Company Secretary	
Phil Gaffney	Lucy Findlay	
Non-executive Director	Chief of Staff	
Terry Hill	Paul Grammer	
Non-executive Director	Commercial Director	
Robert Jennings	Howard Smith	
Non-executive Director	Operations Director	
Chris Sexton		
Technical Director		
Mark Wild		
Non-executive Director		
Simon Wright		
Chief Executive		

The meeting was quorate.

The Chairman welcomed Board members and attendees.

Directors' Interests

Members were reminded that any interests in a matter under discussion must be declared at the start of the meeting, or at the commencement of the item of business.

There were no interests declared in relation to the business of the meeting.

However, the meeting **NOTED** that Pam Alexander had been appointed a Non-Executive Director of the London Legacy Development Corporation (LLDC) from the 1st of April 2018 and a member of the LLDC Planning Committee from the 1st of July 2018.

	Informal Session
	It was NOTED that an informal session of the Board had been held earlier in the day.
	The Board had received a detailed briefing on the following topic:
	Schedule Overview – progress across the programme including an update on RAB-C approvals, dynamic testing and readiness for Stage 3 opening; and
	The Board had REQUESTED that:
	Clarity should be provided on whose responsibility it is to ultimately authorise train service commencement.
	Action: Howard Smith
BD MIN 180329	Minutes of the Meeting of the Board held on 29 March 2018
100023	The Board APPROVED the minutes of the meeting held on 29 March 2018 for signature.
BD AC 180426	Actions and Matters Arising
100420	18.205 - The Board NOTED the verbal update on financial background.
	18.221 – Cost profile during the past 12 months – The Board NOTED the update on cost increases in the year 2017/18 and REQUESTED that the messaging/ narrative around an increase in funding should be presented to the next Board meeting on 24 May 2018.
	Action: Sarah Allen
	18.222 – The Board NOTED the update on explaining the position regarding 'recoverables' and REQUESTED a further update on this in 3 month's time.
	Action: Paul Grammer
	18.226 – TBTC – It was NOTED that data on MTR-South Island Hong-Kong was still being obtained and would form part of the Operations Update at the next Board meeting.
	18.229 – 2018/19 Objectives and Performance Metrics – It was NOTED that further meetings were scheduled to discuss this with the CRL Chair.
	The Board NOTED that all the other 'due' actions had either been completed or were covered by the agenda for the day's meeting.
BD CBR	Crossrail Board Report Period 13
180426	Simon Wright introduced the Board Report for Period 13 highlighting that:
	A number of crucial anchor milestones were achieved in the Period including completion of fire mains in Zones 1 and 2; delivery of the

Eastern Ticket Hall at Farringdon in time for the Over-Site Development; C660 dark fibre now available in Zones 3 and 4; further progress on Stage 1 with all Class 345 Full Length Units (FLUs) now in passenger service; and commencement of daytime dynamic testing between Abbey Wood and Stepney Green with trains operating in manual mode, and automatic mode testing with trains under full control of the signalling system scheduled to start in Period 1;

- Period 12 had seen the start of dynamic testing in Zones 1 and 2 with the first class 345 FLU travelling between Abbey Wood and Connaught Tunnel. The next phase was not without challenges, but the Executive remained focused on completing the remaining work in Zones 3 and 4 to enable the full dynamic testing programme to begin in July;
- Two anchor milestones relating to systems safety reporting were missed due to late submission of required documentation from contractors;
- HSPI increased to 2.59, the second highest score ever recorded on the programme (compared to a target of 2.20);
- At the end of Period 13, the project was 92.1% complete against a plan of 93.9%; and
- AFCDC in the Period had increased by £255.6m to £12,723m, following a
 detailed AFC review of each major contract and a decision to add £243m
 to the risk provision.

Are We Safe?

It was NOTED that:

- All the 11 key contracts achieved a HSPI score of 2.20 or above, with 55% of the contracts scoring at least 2.60 or above;
- The RIDDOR rate increased slightly to 0.09 (0.08 in the previous Period) and the Lost Time Case (LTC) rate increased slightly to 0.17 (0.16 in the previous Period) – both remained significantly within the targets for the year;
- There were 5 significant incidents in the Period 1 RIDDOR 7+ Days, 3 LTCs and 1 High Potential Near Miss; and
- HSPI had been made more challenging from Period 1, 2018/19.

Are We Within Funding?

Mathew Duncan presented a summary of financial performance for the Period. It was **NOTED** that:

 The AFCDC in Period 13 was £12,723m which was £210.7m above IP2 and £15.6m above the reported financial budget. Cost increases in the Period were predominantly due to:

Of the £475m QRA total, £450m was currently programme risallocated to projects. If all £340m of URTs were approved, the QR would reduce to £135m;	
In the Period, Crossrail had spent £107.5m above the 2017/18 Burlan. This was predominantly due to delays to	isiness
offset by apparent unspent Programme risk due to cost being repo the Sectors (£10.6m). The full year overspend was £438m again 2017/18 Business Plan;	
The overall contingency budget of £220m was not sufficient to cov P50 risk exposure of £475m by £256m; and	er the
CRL had expressed an interest in receiving a copy of the independent cost review being carried out by Jacobs on bel Sponsors and was waiting for this to be provided.	
he Board REQUESTED that the bookend numbers be included inance overview from Period 1 2018/19 onwards.	in the
ction: Mathew Duncan	
he Board emphasised that communications on increase in cost ighlight the decrease in interest rates and additional scope implicational cost.	
ommercials Update	ĺ
aul Grammer updated the Board on commercial performance in the Fine Board NOTED that:	Period.
The total gap between CRL's and its contractors' views of target increased by and the total forecast gap in forecast decreased by the cost decreased by the cost decreased by the cost defined cost had increased by Period 12 to the cost defined cost had increased by the cost decreased by the cost decreased by the cost had increased by the cost decreased by the cost decrease	defined
The full AFC review was carried out for C405-Paddington Station, Bond Street Station, C422-Tottenham Court Road Station, Farringdon Station, C502-Liverpool Street Station, C512-White Station, C530-Woolwich Station, C610-Systemwide, C620-Signallin C660-Communications. This was the subject of a se	C435- chapel g, and
Board paper; and	
Commercial negotiations with approval of a proposed combined commercial settlement, which re historical issues and aligned with MOHS dates, was the subject of a separate Board paper.	solved

Network Rail On Network Works and Funding

 The Forecast Final Outturn Cost (FFOC) reduced to £2,376m reflecting the £22m provided via the Additional Funding Agreement between CRL and Network Rail (NR) in addition to the £28m and £84m cash funding NR secured via the DfT Grant Funded Agreement. The balance of £20m was NR's funding contribution;

However, further to the commercial risks identified in previous reports, NR had indicated that these risks were driving additional cost pressures estimated to be between School NR was seeking additional funding (£54m) from the NR Portfolio Board (CP5 contingency) to address cost risk previously identified.

Are We on Time?

Simon Wright had presented an overview of delivery performance during the informal session held earlier in the day. The following current issues were **NOTED** by the Board:

- Progress of 0.7% was achieved in the Period against the plan of 0.9%;
- The On Network Works were 94% complete. At Abbey Wood, platform bridges cladding was completed. At the stations in the West, piling was underway at Hayes & Harlington and Acton. Also, the first of two sets of tender returns had been received by NR for west stations enhancements;
- Following the MOHS rebaseline in February 2018, schedule pressures continued to be felt across most contracts. Whilst 4 out of 6 anchor milestones were delivered in the Period, only 39 out of 61 measured project milestones were delivered. Although many of these missed milestones did not affect MOHS, the overall impact was still significant and needed to be addressed;
- In the Period, all joint proving tests were completed along with the train database and coverage tests (some of which would require retesting to validate the outcomes). However, overall only 46 hours of testing had been used against the planned 127 hours specified in the revised MOHS. A plan to run several tests in parallel was being designed in an effort to recover the lost hours, but the removal of engineering trains along the testing line as well as the lengthy energisation process eroded the testing time available. In addition, poor train reliability had compounded the delays. To address this, a testing window strategy was being implemented, the first of which would take place on 26 April 2018, providing uninterrupted access over an extended weekend for critical testing works. There would be a total of 8 testing windows, occurring every 2 weeks;
- Dynamic testing in Zones 3 and 4 remained on plan to start on 11 June 2018 which would then extend to Zones 1 4 and continue until 5 August 2018. The critical path for meeting this key date remained through the systemwide infrastructure works and the availability of the HV Traction and Non-Traction power supply, all of which was under constant scrutiny by the CRL Executive;
- Three checkpoints had been established to determine readiness for Stage 3 and designed around specific events i.e. Trial Running, Trial Operations,

Passenger Services. These checkpoints were aligned to the T-Minus process. Sponsors had been informed and were satisfied with this process and updates would be provided to the Board at each checkpoint in June, July and October 2018;

- There remained ongoing pressure on Siemens delivery of C660 communications software. The software was essential to the testing of the SCADA network and continued to show slippage for the next scheduled drop. However, following an executive review on 26 March 2018, Siemens had indicated that they would prioritise Crossrail over other major projects in their portfolio;
- The overall production of Installation Release Notes (IRN) (as well as other key documents) to support handover of assets by the Tier 1 contractors remained significantly below the level required for both Stations and Systemwide. The major challenge with completion remained a resource issue which the project teams continued to push with each Tier 1 contractor; and
- The provision of asset data, O&M manuals and training materials by contractors in time to meet the Infrastructure Managers' needs was now critical. All parties were working to accelerate the production of asset data and to make best use of it progressively as it became available. The Executive had set a very clear strategy requesting a focus, in particular, on essential O&Ms and systems safety documentation and where possible, challenging the requirement for the O&M with the maintainers. Both Rail for London (RfL) and London Underground (LU) supported the strategy. In the meantime, efforts continued to improve both production and quality.

Operations

Howard Smith provided an update on key operations matters, highlighting some of the issues relating to Stage 1 (current operations), Stage 2 Operational Readiness, Rolling Stock for Stage 3, Stage 3 Operational Readiness including the Elizabeth Line Countdown Board tracker and Stages 4 and 5.

The Board **REQUESTED** that a short update on Stage 2 Phase 2 should be included in the Operations presentation to the next Board meeting.

Action: Howard Smith

The Board **NOTED** that discussions were ongoing with NR around transition testing, design and schedule requirements and **REQUESTED** a report back on this.

Action: Simon Wright

The Board also **NOTED** that in preparation for the opening of the Elizabeth line in December 2018, it was necessary for RfL to secure proprietary interest in relevant land on the central section before it could become the Infrastructure Manager. Some key parcels of land at Westbourne Park, Royal Oak Portal, Plumstead Portal, Pudding Mill Lane and the South East Spur needed to be transferred from NR to TfL. There was growing pressure on the pace of negotiations with NR, which needed to be concluded for handover of the assets to RfL in July 2018.

Are we world class?

It was NOTED that:

- The Crossrail Helpdesk had successfully transitioned to TfL; and
- The Crossrail Design Line exhibition had closed and there had been 620,000 visitors, with the design campaign reaching 16 million.

The Board **NOTED** the Board Report for Period 13.

01/19

CRLB 01/19 - 2017/18 Performance Measurement

Mathew Duncan presented a paper reviewing CRL's performance against its Key Performance Indicators (KPIs) for 2017/18.

The Board:

- NOTED the individual performance ratings and the safety performance;
 and
- after further discussion (in a session without CRL executives present) and taking into account CRL's positive health and safety performance in the year, exercised their discretion and APPROVED an increased overall KPI score from the proposed 28% to 32%, as an appropriate reflection of CRL's performance in the year.

02/19

CRLB 02/19 - Transfer of Board Contingency to Programme Contingency

Mathew Duncan presented a paper informing the Board of the status of the contingency budgets; requesting a transfer of £96.2m from Board Contingency to Programme Contingency; and

The Board **NOTED** that the drawdown of £96.2m from Board Contingency was required to fund the grant of IA for a number of major projects and that the residual Board Contingency would be £3.6m.

The Board also **NOTED** that increasing the financial budget above IP2 raised questions of CRL becoming unable to deliver its obligations within the funding currently available to it and the possibility of Sponsors exercising their 'Put and Call' options. CRL was currently seeking assurance from Sponsors that this would not be the case.

The Board:

- NOTED the status of the contingency budgets;
- APPROVED the transfer of £96.2m from Board Contingency to Programme Contingency; and
- NOTED that and a paper on this would be submitted to the next Board meeting.

03/19

CRLB 03/19 – Increase in Investment Authority for Projects

The Board:

APPROVED the provision of additional IA for

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	NOTED the amounts for the other projects, which had been approved by the Commercial and Change Sub-committee on 17 April 2018 and endorsed by the Executive and Investment Committee on 18 April 2018.
04/19	CRLB 04/19 — Commercial Settlement and
	The Board:
	NOTED the terms of the proposed commercial settlement with
	APPROVED the and
	NOTED that the constituted a
	new contractual commitment on CRL's part and that Sponsors had agreed to this commitment.
05/19	CRLB 05/19 – Replacement of Company Secretary
	The Board APPROVED the replacement of Mark Fell by Susan Beadles as Company Secretary with effect from 1 May 2018.
06/19	CRLB 06/19 – Project Representative Report (P-Rep) Period 12
	The Board reviewed and NOTED the P-Rep Report for Period 12.
	Simon Wright provided a verbal summary of the issues that were expected to be raised in the Period 13 report which were NOTED by the Board. These included matters relating to: financials; schedule and progress; Stage 2 Opening; Stage 3 Opening; Stage 4 and 5 Opening; handover; and approvals and assurance.
07/19	CRLB 07/19 – Legal Report
	Mark Fell presented the Legal Report which was NOTED by the Board.
	Matters highlighted at the meeting included:
	 the dismissal by the High Court of Mr Charlesworth's application for a judicial review of CRL's decision under the Land Disposal Policy relating to a site at Woolwich; and
	 confirmation that land compensation claims and FOI and data protection matters were now being handled directly by TfL.
	Minutes of Board Committees for Reference
	The Board received the following minutes for reference:
	Executive and Investment
	Verbal Updates of Recent Board Committee meetings
	Executive and Investment Committee 18 April 2018 Matters covered by the Committee were: Simon Wright EIC MIN 180418
	Board agenda items: • 2017/18 Performance Measurement

	Major Projects Investment Authority Increase	
	Other items:	
	Accommodation Update	
	Revised Incentive Milestones	
	Revised Terms of Reference for the Commercial and Change Sub-committee.	
AOB	There was no other business.	
NEDs Only Session	Non-executive Directors provided feedback on the day's meeting.	

Tauru Mannan	Signed by:	-
	Terry Morgan Non-executive Chairman	