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1	Tuesday, 23 October 2018	1	many, many significant railway projects in Hong Kong and
2	(10.02 am)	2	indeed in other locations throughout the world.
3	MR PENNICOTT: Good morning.	3	This has been achieved, amongst other things, by
4	CHAIRMAN: Good morning.	4	using its own project integrated management system,
5	MR PENNICOTT: Sir, just before Mr Boulding delivers his	5	which I'm going to refer to as PIMS, which I emphasise
6	opening address, can I just mention two things, in fact	6	is certified to be compliant with ISO 9001 international
7	just two names, really.	7	standards.
8	First of all, Mr Cohen is not here at the moment.	8	Now, what does this comprise? It comprises a set of
9	Mr Paul Barrett, counsel, is here.	9	project management documents which set out the
10	CHAIRMAN: We had you in writing yesterday but not in	10	procedures and practices to be followed by MTR staff,
11	person.	11	and in fact it's now been used in managing MTR's railway
12	MR BARRETT: I noticed, sir, that the transcript referred to	12	projects for over 20 years.
13	me as Mr Barrette, so I just wanted to point out that	13	In those circumstances, we emphasise that it's been
14	I have no specialist engineering knowledge of barrettes,	14	tried and tested over a very lengthy period of time, and
15	despite the fact my name tends to indicate that.	15	that in itself, we would submit, constitutes cogent
16	MR PENNICOTT: And also, so far as Pypun are concerned, they	16	evidence of the adequacy, suitability and effectiveness
17	are now represented by my learned friend Russell Coleman	17	of PIMS for railway projects.
18	SC, and we welcome him here as well.	18	Now, what does it do? It sets out various
19	CHAIRMAN: Yes, Mr Coleman.	19	requirements, some of which I'm going to refer to.
20	MR COLEMAN: Good morning, sir. Perhaps in a lighter momen	: 20	Firstly, requirements in terms of design and
21	I should say it's not true what Mr Shieh has been	21	development. Secondly, design verification and
22	saying, that I did try to come here yesterday but only	22	validation. Thirdly, control of design changes.
23	found my way here today.	23	Fourthly, control of non-conforming products. Fifthly,
24	Thank you for accepting me here.	24	corrective and preventative actions, and also training
25	MR PENNICOTT: Sir, it's Mr Boulding.	25	of personnel, which of course is very, very important
	Page 2		Page 4
1	Opening submissions by MR BOULDING	1	indeed.
2	MR BOULDING: Good morning, sir, Professor. We have served	12	I emphasise that the robustness of PIMS has been
3	our written opening and we trust you have had	3	endorsed by various independent organisations, and
4	an opportunity to read that.	4	importantly PIMS is not meant to be prescriptive and to
5	What I would like to do today is to emphasise	5	supplant the professional judgment of MTR's construction
6	certain parts of that opening as well as taking the	6	professionals, who, as you will realise and indeed you
7	opportunity to elaborate upon certain matters that we	7	will hear from them, are educated, trained and
8	consider are important to your consideration of this	8	qualified, and indeed experienced, in their respective

9 matter. spheres of responsibility. But we say, at the very beginning, that as far as 10 this SCL project is concerned, MTR has been the subject 11 of unfair and critical but generally unreliable and 12 unsubstantiated newspaper and media reports, in 13 particular, alleging inadequate attention to safety. 14 Contrary to what the uninformed reader might think, 15 own professional judgment. MTR takes its duties and responsibilities in terms of 16 safety very, very seriously indeed and in fact, in the 17 recent past, it's taken a number of very important steps 18 to address any public concerns arising out of its 19 20 capital projects. In fact, it is fair, indeed accurate, 21 to say that its approach is one of constant improvement. 22 In this context, it emphasises that it's got a long history of safety and reliable railway construction and 23 operation. Indeed, over the last 20 years or so, it's 24 managed to deliver -- successfully, I might add -- many, 25 indeed practical guidance in terms of how, for example,

So, taking account of that fact, it is important to emphasise that PIMS combines both a solid framework of tested guidelines and procedures as well as experienced construction professionals' abilities to adapt to developments and changing circumstances based upon their

As one would expect, MTR staff are required to familiarise themselves with the requirements of the latest version of PIMS, and indeed the MTR managers have an obligation to ensure that their staff comply with it. As one would expect with any organisation like MTR, its frontline staff, like all others, are requested to enrol in induction training when they join the organisation, and this is designed to provide them with, as one would expect, an overview of the PIMS system and

	Page 5		Page 7
1	to use what's referred to as ePMS, which is MTR's	1	new engineering division was as follows: firstly, to
2	web-based information and document workflow processing	2	strengthen because of course it existed before
3	system.	3	MTR's check and balance framework; and secondly, to help
4	Having said all that, MTR is not a complacent	4	provide the requisite controls and oversight of its
5	organisation. On the contrary, it is what I would refer	5	capital projects.
6	to as a learning organisation. Why do I say that?	6	The Independent Expert Panel of which you, sir,
7	I say that because it makes continuous efforts to	7	were a member perhaps I can be permitted to read from
8	develop and enhance its management systems, and it	8	it. It's B9/6113 we don't need to turn it up it
9	learns from its experiences, not only the successes,	9	stated that "Lloyd's Register was of the opinion that
10	I add, or emphasise, but also the challenges experienced	10	MTRCL's project management processes and controls 'are
11	in the projects it undertakes.	11	known to be robust and in line with industry best
12	I would say that as a result of the recent incidents	12	practice. They are regularly reviewed and audited by
13	on the SCL project, MTR has already identified various	13	outside bodies and have been proven and refined through
14	areas for enhancement in relation to documentation and	14	the delivery of many high-quality railway projects by
15	the recording of site supervision.	15	MTRCL in Hong Kong and abroad."
16	So what's the evidence of the fact that MTR	16	In addition, the IEP noted that independent
17	constantly strives for improvement? Well, I have to go	17	assessments in 2009 by Ernst & Young and by the Scott
18	back one or two years but not that long: in or around	18	Wilson business consultancy, had also found that MTR's
19	2012, MTR created an additional project quality	19	project controls were appropriate and stated that "the
20	compliance unit. This was within the quality assurance	20	panel is of the view that MTRCL's contract management is
21	team, to ensure that its project management system was	21	exemplary".
22	enhanced. The following year, 2013, again to enhance	22	"Exemplary".
23	its project management system, the MTR established	23	Now, in direct response to recommendations made by
24	self-quality audits, and these involved an arrangement	24	the IEP with respect to the XRL project MTR implemented
25	whereby different teams from different MTR contracts	25	specific actions to further improve its project
	Page 6		Page 8
1	cross-audited each other. It didn't stop there because	1	management systems. An example of this was that its
2	as recently as April 2014, MTR set up the Independent	2	progress reporting was enhanced, including the addition
3	Board Committee, known as the IBC.	3	of a scheduled recovery index in monthly progress
4	Now, it's important to emphasise that the IBC is	4	reports, with traffic lights to indicate the status of
5	comprised of independent, non-executive directors, and	5	any particular matter.
6	this was in response to public concerns at the time over	6	I have emphasised already the setting up of a CWC.
7	the XRL project, and the IBC, assisted by two	7	I do want to say a little bit more about it because it
8	independent project management experts, reviewed MTR's	8	is important. It is important in the context of the
9	internal systems, controls and management for the XRL.	9	matters which are the subject matter of this Commission
10	You, sir, will be familiar with some of this because	10	of Inquiry. The CWC comprises seven non-executive
11	it resulted in two reports being prepared in July 2014	11	directors, six of whom are independent, non-executive
12	and October 2014, which included various	12	directors of MTR. All directors are appointed by the
13	recommendations, all of which were implemented.	13	MTR board.
14	And having referred to you, sir, the MTR also	14	The principal functions and responsibilities of the
15	received recommendations from the Independent Expert	15	CWC include the following, and they are important.
16	Panel chaired by you. And these recommendations from	16	Firstly, overseeing MTR's capital projects. Now, this
17	the IEP were set out in a report dated December 2014 and	17	involves projects both in and outside of Hong Kong. The
18	again they were implemented.	18	projects have to be the design and construction
19	So what was the consequence of this implementation?	19	activities involving railway projects with a capital
20	Well, first of all, MTR made changes to strengthen its	20	value in excess of HK\$10 billion. So obviously it
21	corporate governance, as well as the systems and	21	covers the SCL project and indeed most other projects as
22	processes which apply to large-scale capital projects.	$ ^{22}$	well.
23	Secondly and importantly, it established the Capital	23	It also has to oversee any other projects which are
24	works Committee, the CWC. It also established a new	24	tour months or more behind programme.
25	engineering division, and the purpose of the CWC and the	25	Secondly, the CWC has to review the progress of such

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1	projects both from a programming and cost perspective.	1	director. That's the first line.
2	Importantly, it has to check that there are adequate	2	What about the second line of defence? This covers
3	resources for the projects, including the fact that	3	risk management and compliance oversight, and includes
4	there are enough resources for the proper supervision	4	the following. Firstly, assurance within the project
5	thereof.	5	division. Now, this includes quality audits, safety
6	It also has to review MTR's communication strategy	6	management audits and inspection, environmental
7	and its crisis management plan in respect of each of the	7	management audits, programme audits, system assurance
8	projects. And finally, I emphasise that it reports on	8	audits, and enterprise risk management.
9	matters falling within its sphere of responsibility to	9	It doesn't stop there though, because it also
10	the MTR board on a quarterly basis, but it can also	10	includes gateway reviews by the engineering division
11	report on an ad hoc basis as and when it considers	11	which is independent from the projects team and reports
12	appropriate if the need arises.	12	directly to a separate member of the executive
13	Currently, I emphasise that the CWC, in the light of	13	committee.
14	what's occurred on the SCL, is reviewing MTR's project	14	Now, what do these reviews involve? First of all,
15	management and monitoring system, and when that review	15	they take into account both qualitative and quantitative
16	is complete I can assure you that the recommendations	16	information, but in doing so and this is important
17	will be implemented.	17	they provide an alternative, an additional view, on the
18	It doesn't stop there though, because the MTR also	18	overall health of a project from a cost and a schedule
19	has a risk committee, and it's of note in the current	19	point of view. So far, so good.
20	context. It's comprised of non-executive directors and	20	What about the third line of defence? Well, this
21	independent non-executive directors, and it plays	21	involves an exhaustive internal auditing process which
22	an important role in managing the risks arising out of	22	reports directly to both MTR's CEO and, as one would
23	capital project works.	23	expect, MTR's board.
24	Its functions and responsibilities include the	24	Now, I have already mentioned safety and the fact
25	following. First of all, it has to review MTR's	25	that we have been unfairly criticised in terms of our
	Page 10		Page 12
1	enterprise risk management framework guidelines, policy	1	record, but MTR regards safety as paramount. Paramount.
2	and procedures for risk assessment and risk management.	2	It places supreme importance on public safety and indeed
3	Secondly, it has to review MTR's top risks and key	3	on transparency in handling any issues of concern.
4	emerging risks and the controls in place to mitigate	4	I say here and now that MTR is determined to ensure that
5	such risks. It has to monitor MTR's risk profile. It	5	issues of the kind that you are going to consider, the
6	also conducts what are referred to as deep dive,	6	alleged cutting of threaded rebar and inadequate or
7	deep-dive reviews on key risk areas. It reviews the	7	non-existent connections of rebars to couplers, is
8	effectiveness of the enterprise risk management	8	determined to ensure that this will not reoccur.
9	function. And finally it reviews MTR's crisis	9	To this end, I emphasise that we have already taken
10	management arrangements.	10	seven steps, already. First of all, at the Highways
11	I emphasise in this context that as a result of the	11	Department's Railway Development Office's request, MTR's
12	IBC reports and the IEP reports that I've already	12	engineering division has reviewed MTR's site supervision
13	referred to, the MTR implemented another important	13	and communications system within MTR, and with
14	measure as a result of the contents of the report. This	14	government, for the SCL project, with a view to
15	is referred to as the three lines of defence, three	15	improving it. Indeed, a letter setting out the initial
16	lines of defence architecture. This applies to MTR's	16	findings was submitted to the RDO, the Railway
17	project management, which of course comes under sharp	17	Development Office, on 6 July. For the record, that's
18	focus in this Commission of Inquiry.	18	document B9/6718-6722.
19	What does it involve? It involves the following.	19	Second step, Turner & Townsend, who I'm sure you've
20	The first line of defence comprises a detailed project	20	heard of, a world-class independent expert, has been
21	management system which by way of a checking process is	21	engaged to review the processes and procedures within
22	designed to cover the following very important matters:	22	MTR's PIMS, and that's notwithstanding all the goods
23	quality, environmental management, safety, programming,	23	things that have been said about it already. It's been
24	risk, and costs. This line of control reports to the	24	asked to review it. And Turner & Townsend's terms of
25	project teams, which teams are led by the project	25	reference focus specifically on the following matters:

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1	detection, recording, reporting, and finally remedying	1	contract 1112 works which fall within your terms of
2	non-compliant works; very important matters.	2	reference, particularly of course given the limited time
3	Thirdly, MTR's management has been directed to	3	which you are operating under.
4	strengthen its monitoring and supervision over all SCL	4	With that in mind, we respectfully suggest that
5	project contracts.	5	there are two principal areas upon which you should
6	Fourthly, the CWC, its terms of reference is in the	6	concentrate. The first will come as no surprise:
7	process of being revised, to enhance its oversight of	7	coupler connections. We say that you should consider
8	the quality of the capital works projects. We have	8	the nature and extent of any non-compliant rebar
9	already seen, we have already heard what it does to	9	couplers. This is of course raised in paragraph 35 of
10	date, but they are going to be enhanced. It's going to	10	Mr Pennicott's opening address. This requires, we
11	be given even greater powers of insight and	11	submit, the Inquiry to identify those instances in which
12	recommendation.	12	it can be established, having regard to the evidence
13	Fifthly, so far as non-conformance reports, referred	13	placed before it, that there really was unacceptable
14	to as NCRs, are concerned, a system has been introduced	14	trimming down of the threaded ends of the rebar using
15	for categorising works-related NCRs involving the	15	cutting tools, with the consequence that such rebar was
16	implementation of a management protocol for escalating	16	not connected into the couplers either properly or at
17	NCRs upwards. In addition, a review of the NCRs is	17	all. That's your primary concern. That's your primary
18	carried out on a weekly basis by the MTR construction	18	focus.
19	management team members for each contract. And since	19	Now, what does the evidence say in this regard?
20	17 July 2018, a register of NCR works with open status	20	What's the weight of the evidence? You've already been
21	has been submitted to Highways' Railway Development	21	introduced to this aspect of the matter by my learned
22	Office on a weekly basis.	22	friends, in particular Mr Paul Shieh, but we would say
23	Sixthly, MTR has initiated an initiative to put in	23	that the evidence of MTR. Leighton, Fang Sheung and
24	place some structure for using smartphone applications	24	Intrafor on the one hand should be compared with the
25	such as WhatsApp to capture and report quality issues.	25	unsubstantiated, confused, misleading and non-credible
	Page 14		Page 16
1	Page 14 And finally, seventh, a project division quality working	1	Page 16 evidence of China Technology's Jason Poon.
1 2	Page 14 And finally, seventh, a project division quality working group has been set up which has organised experience	1 2	Page 16 evidence of China Technology's Jason Poon. And in the light of the evidence that is currently
1 2 3	Page 14 And finally, seventh, a project division quality working group has been set up which has organised experience sharing and training sessions for MTR staff, and already	1 2 3	Page 16 evidence of China Technology's Jason Poon. And in the light of the evidence that is currently before the Commission of Inquiry, we would say that the
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 14 And finally, seventh, a project division quality working group has been set up which has organised experience sharing and training sessions for MTR staff, and already these sessions have covered important topics such as quality supervision plan, the on-site quality assurance quality control processes for couplers, the management of NCRs and keeping records systematically. Now, what about further enhancements? As to any further enhancements which are considered to be necessary or desirable to the procedures which the MTR already implements in respect of its various projects, I'm instructed to say that MTR will not, sir, shy away from any shortcomings on its part if identified by the Commission of Inquiry. And, moreover, it will promptly address and remedy the same, and of course will	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 16 evidence of China Technology's Jason Poon. And in the light of the evidence that is currently before the Commission of Inquiry, we would say that the situation can be summarised as follows. All of the occurrences, we would say most likely maximum of five, although Leighton say just three, of trimming down the threaded ends of the rebar occurred in a relatively short period of time. That was between August to the end of December 2015. We emphasise they were discovered during MTR's regular site surveillance of the relevant works, and we would say that that supports the adequacy and the effectiveness of MTR's supervision and inspection of the works. We would say there is no evidence, and certainly no credible evidence, of the non-compliance being
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	Page 17		Page 19
1	from both MTR and Leighton is that they were rectified	1	that the number of couplers had been counted by MTR's
2	immediately to MTR's satisfaction. In fact, only one of	2	construction management and design management teams, as
3	the occurrences were seen to warrant an NCR by Leighton.	3	well as by Leighton, using the BA14 as-built drawings
4	That was NCR no. 157, which it issued on 18 December	4	for the diaphragm walls as submitted to the Buildings
5	2018 to Fang Sheung. That was apparently because	5	Department between January 2015 and January 2016. The
6	whereas previously the occurrences were dealt with very	6	number of couplers was incorrect and the problem was
7	satisfactorily by the site procedures, I think this was	7	that the BA14 as-built drawings for the diaphragm walls
8	the third occurrence, enough was enough and an NCR had	8	failed to take into account the change in connection
9	to be raised. But that's as far as it goes.	9	detail to the east diaphragm wall, which of course you
10	So that's the first matter to focus on, and we would	10	have already heard had resulted in a reduction in the
11	say that when you take account of the evidence you will	11	number of couplers that were ultimately required in the
12	agree with our assessment of the situation as supported	12	construction process.
13	by Leighton and indeed Fang Sheung and Intrafor.	13	Now, I'm going to go into the change in connection
14	Now, what about the second matter? The second	14	detail in a little more detail later on in this opening,
15	matter you ought to focus on would be the errors in the	15	by way of a slide demonstration, but the change in
16	15 June 2018 report which was produced by MTR. Now,	16	connection detail essentially comprised the following.
17	what's the situation there? Allegations appeared in the	17	Steel reinforcement bars in the upper part of the EWL
18	media, as we know, at the end of May 2018, concerning	18	slab, in certain locations, were not connected to the
19	defective coupler installation, fed of course by one	19	east diaphragm wall by the cast-in couplers that had
20	Jason Poon. This resulted in Highways' Railway	20	previously been installed at the top of the east
21	Development Office, by a letter dated 31 May 2018,	21	diaphragm wall during its construction.
22	requiring MTR to produce a report on what had been going	22	Now, instead of that, in certain locations, at the
23	on. And, as we know, the objective of this report was	23	top section of the east diaphragm wall, the concrete had
24	to demonstrate that, firstly, any any	24	been broken down and removed in varying depths from
25	irregularities in steel bar fixing works had been fully	25	approximately 400 to 500 millimetres, which included the
	Page 18		Page 20
1	rectified before concreting, and secondly that the works	1	concrete and the steel reinforcement and the couplers
1 2	rectified before concreting, and secondly that the works were up to the required quality requirements.	1 2	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to
1 2 3	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report	1 2 3	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top
1 2 3 4	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's	1 2 3 4	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be
1 2 3 4 5	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears	1 2 3 4 5	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically.
1 2 3 4 5 6	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly	1 2 3 4 5 6	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or
1 2 3 4 5 6 7	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable	1 2 3 4 5 6 7	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously
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1 2 3 4 5 6 7 8 9 10 11 12 13 14	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and	1 2 3 4 5 6 7 8 9 10 11 12 13 14	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in
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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more couplers in the structure, I think approximately 23,500,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view on this already the change in connection detail
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more couplers in the structure, I think approximately 23,500, than were actually there, and this reduction stemmed	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view on this already the change in connection detail represents an improvement on the original detail with
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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more couplers in the structure, I think approximately 23,500, than were actually there, and this reduction stemmed from the fact that there had been a change in the connection detail for the steel rebar in parts of the	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view on this already the change in connection detail represents an improvement on the original detail with a minimised risk of workmanship issues so far as the splicing assemblies were concerned.
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more couplers in the structure, I think approximately 23,500, than were actually there, and this reduction stemmed from the fact that there had been a change in the connection detail for the steel rebar in parts of the east diaphragm wall in areas B and C, and this change	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view on this already the change in connection detail represents an improvement on the original detail with a minimised risk of workmanship issues so far as the splicing assemblies were concerned. Secondly, it does not have an impact on the
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more couplers in the structure, I think approximately 23,500, than were actually there, and this reduction stemmed from the fact that there had been a change in the connection detail for the steel rebar in parts of the east diaphragm wall in areas B and C, and this change of course is something that Mr Pennicott raises in	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars straight-through rebars straight-through rebars stage on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view on this already the change in connection detail represents an improvement on the original detail with a minimised risk of workmanship issues so far as the splicing assemblies were concerned. Secondly, it does not have an impact on the structural integrity of the EWL slab or the diaphragm
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	rectified before concreting, and secondly that the works were up to the required quality requirements. It does bear emphasis that the focus of the report at the time was allegedly defective steelworks. That's what Poon was alleging in the media. It also bears emphasis that MTR had to produce a report very quickly and indeed did so on 15 June 2018 under considerable pressures of time. It was produced in just two weeks and at the same time as there were still substantial ongoing works on contract 1112 to progress, and of course the people who were involved in the work were also responsible for those ongoing works. The 15 June report that MTR presented to the Railway Development Office unfortunately contained an error, and they put their hand up to that, and the error concerned the number of couplers connecting the EWL slab and the diaphragm walls. The report stated that there were more couplers in the structure, I think approximately 23,500, than were actually there, and this reduction stemmed from the fact that there had been a change in the connection detail for the steel rebar in parts of the east diaphragm wall in areas B and C, and this change of course is something that Mr Pennicott raises in paragraph 36 of his opening statement.	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	concrete and the steel reinforcement and the couplers that had previously been there, and that was done to allow the concrete used in the construction of the top of the EWL slab, the diaphragm wall and the OTE, to be cast monolithically. And when this was done, when the 400 or 500 millimetres was chipped away and what had previously been there taken away, when this was done, the steel reinforcement for the EWL slab was extended, and I emphasise, using straight-through rebars straight-through rebars straight-through rebars straight-through rebars continuously across the top of the broken-down diaphragm wall and into the OTE base slab on the other side we refer to that as the soil side of the diaphragm wall. You are going to see in slides what happened in the next 20 or 30 minutes or so. But we do say that on the basis of evidence to date and it may well be that Prof Hansford has a view on this already the change in connection detail represents an improvement on the original detail with a minimised risk of workmanship issues so far as the splicing assemblies were concerned. Secondly, it does not have an impact on the structural integrity of the EWL slab or the diaphragm wall.

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1	summary, is what happened. More later.	1	which is dated February 2009, and that's, for the
2	But I do emphasise that whilst MTR puts its hand up	2	record, B16/B12548. Section 19.77, dealing with
3	to the error, there was certainly no intention to	3	"Diaphragm wall, secant pile wall and contiguous pile
4	mislead anybody by the terms of the 15 June report.	4	wall", it states, and I read:
5	I emphasise that the error arose because at the time in	5	"(1) The contractor is responsible for constructing
6	2015 when the connection detail was changed. Leighton	6	a watertight wall, such that the leakage is restricted
7	had not formalised the change in a work proposal or	7	to damp patches with no visible flow of water in any
8	permanent works design report for review by MTR's	8	area of the wall. Single leaks indicated by jetting or
9	construction management or construction design teams	9	spraving shall not be present
10	The change in connection detail was going to be	10	(2) Upon initial excavation of panels/piles the
11	reflected in the final as-built submissions for the FWL	11	total inflow over a given area shall not exceed
12	slab to the Buildings Department, which Leighton is	12	0.12 litres per square metre per day overall and
12	still in the process of preparing as of this date, and	12	0.24 litres per day on any separate square metre. No
13	unfortunately, the reality is that the change was simply	14	leakage occurring in the form of a water jet or spraying
15	forgotten in the rush to get the report out	15	of water shall be allowed "
16	How did the error come to light? Well, it finally	16	So one can see what is permitted by the contract
17	came to light when MTR's construction management team	17	and we would emphasise that it's not at all uncommon
18	reviewed site photographs of what had actually been	18	that underground water which is connected in the soil
10	built in the EWL slab together with other related	10	and the rock strate exits through the joints of the
20	information in or around July 2018 and once they know	20	diaphragm wall papels causing damp patches to form. And
20	they put their hand up to it. Unfortunate, but thet's	20	indeed you might have seen one or two when you inspected
21	the year it ecourred	21	the site on Sunday
22	Now, what should angillarry matters? They are the two	22	As I have emphasized already, this is perfectly
25	important matters that we say you should focus on What	25	As I have emphasised already, this is perfectly
24	about ancillary matters? There are we would suggest	24	in the metaricle and workmanship specification is not
23	about anchiary matters? There are, we would suggest,	23	in the materials and workmanship specification is not
	Page 22		Page 24
1	three minor defects or alleged defects which fall for	1	exceeded, which we say it's not.
2	your consideration but which should not occupy too much	2	But in any event, grout injection, which is a common
3	of your time.	3	and standard practice in the construction industry, is
4	These matters are as follows. Firstly, cracks and	4	used, where necessary, to manage cracks and seepage
5	water leakage through the diaphragm walls as constructed	5	issues in the walls. In fact, in various localised
6	by Intrafor. Secondly, the alleged use of lightweight	6	areas of seepage on the diaphragm walls on the NSL
7	concrete as backfill in area A. And thirdly, peeling	7	level, which the MTR identified and marked up on sets of
8	and honeycombed concrete, which I suspect you both saw	8	drawings, were indeed treated with grout injections in
9	again on Sunday when you viewed the site.	9	or around early 2018 under the daily site surveillance
10	Now, so far as we are concerned, you can dismiss the	10	of its inspectors And after those grout injections
11			of its inspectors. This arter those grout injections,
12	first two and park the last one, ie the honeycombed	11	which were successful, there was only minimal water
13	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing	11 12	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant
15	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm	11 12 13	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded.
13	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this	11 12 13 14	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media
13 14 15	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement	11 12 13 14 15	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway
13 14 15 16	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement with Intrafor that the diaphragm walls have been built	11 12 13 14 15 16	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway Development Office's chief engineer, carried out
13 14 15 16 17	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement with Intrafor that the diaphragm walls have been built in full compliance with the stringent requirements of	11 12 13 14 15 16 17	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway Development Office's chief engineer, carried out inspections at the Hung Hom Station Extension, and he
13 14 15 16 17 18	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement with Intrafor that the diaphragm walls have been built in full compliance with the stringent requirements of contract 1112. Specifically, the need to control	11 12 13 14 15 16 17 18	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway Development Office's chief engineer, carried out inspections at the Hung Hom Station Extension, and he discovered that there were no serious cracks or serious
14 15 16 17 18 19	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement with Intrafor that the diaphragm walls have been built in full compliance with the stringent requirements of contract 1112. Specifically, the need to control underground seepage has been taken into consideration in	11 12 13 14 15 16 17 18 19	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway Development Office's chief engineer, carried out inspections at the Hung Hom Station Extension, and he discovered that there were no serious cracks or serious water leakage in the concrete structures. Just for
13 14 15 16 17 18 19 20	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement with Intrafor that the diaphragm walls have been built in full compliance with the stringent requirements of contract 1112. Specifically, the need to control underground seepage has been taken into consideration in the design and construction of these walls. And the	11 12 13 14 15 16 17 18 19 20	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway Development Office's chief engineer, carried out inspections at the Hung Hom Station Extension, and he discovered that there were no serious cracks or serious water leakage in the concrete structures. Just for reference, that's paragraphs 19 to 21 of Mr Ralph Li's
13 14 15 16 17 18 19 20 21	first two and park the last one, ie the honeycombed concrete. Why do I say that? First of all, dealing with the cracks and the water leakage on the diaphragm walls, again the press and media have reported on this in their reports. However, we are in full agreement with Intrafor that the diaphragm walls have been built in full compliance with the stringent requirements of contract 1112. Specifically, the need to control underground seepage has been taken into consideration in the design and construction of these walls. And the reality of the situation, we would emphasise, is that	11 12 13 14 15 16 17 18 19 20 21	which were successful, there was only minimal water leakage in the diaphragm walls, such that the relevant tolerances have not been exceeded. But it doesn't stop there, because after the media reports of 30 May 2018, Mr Ralph Li, the Railway Development Office's chief engineer, carried out inspections at the Hung Hom Station Extension, and he discovered that there were no serious cracks or serious water leakage in the concrete structures. Just for reference, that's paragraphs 19 to 21 of Mr Ralph Li's witness statement dated 7 September 2018.
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in fact anyone else. So that's water leakage.

Workmanship Specification for Civil Engineering Works

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	Page 25		Page 27
1	What about the use of mass concrete for backfilling	1	Firstly, various pullout tests, including at the EWL
2	in area A? There is absolutely no dispute that mass	2	track slab soffit and concrete core tests at the top of
3	concrete was used for backfilling in area A in the space	3	the EWL and NSL track slabs have been carried out. And,
4	between the in situ wall and the diaphragm wall on the	4	happily, the results of all these tests indicate that no
5	SCL level.	5	honeycombing was found at the pullout or core sample
6	CHAIRMAN: Sorry, just help me a second.	6	locations in the EWL and NSL track slabs.
7	MR BOULDING: Sorry, sir.	7	Further tests, including a load test, and
8	CHAIRMAN: No, no. How did this issue of the concrete mass	8	investigations are proposed and are in the course of
9	filling arise? I've got a sudden blank spot there.	9	being implemented. By way of example only, Leighton's
10	MR BOULDING: You will not be surprised, sir, it was because	10	independent consultant engineer, CEEK Ltd, is carrying
11	a certain Jason Poon made allegations during the	11	out a study, and already its registered structural
12	Legislative Council subcommittee meeting held on 13 July	12	engineer has issued a preliminary statement that the
13	2018.	13	slab is safe to allow I emphasise, the slab is safe
14	CHAIRMAN: And he said what was wrong with this?	14	to allow the continuation of construction activities,
15	MR BOULDING: He said that lightweight concrete, being	15	including the continued running of trains above and
16	concrete of a different density, had been used to fill	16	below the slab.
17	the area, which, not surprisingly, is incorrect.	17	But, in addition, Leighton has also engaged
18	CHAIRMAN: All right. I'll let you proceed. Thank you.	18	a specialist sub-contractor to remedy the poor concrete
19	But different types of concrete are commonly used	19	quality identified on site, and Leighton's proposed
20	depending on the weight.	20	remedial works will address any public concerns arising
21	MR BOULDING: That's correct, but Jason Poon's allegation	21	from the issue of honeycombed concrete.
22	was that the concrete in question, which was to be used	22	So we would say that subject to any further
23	as a deadweight for the structure, to counter	23	investigations and statements and report, the poor
24	hydrostatic uplift, was in effect too light for its	24	concrete quality observed by MTR to date does not pose
25	purpose. That's not the situation at all. Indeed, what	25	any material or structural risks, but of course we will
	Page 26		Page 28
1	Page 26	1	Page 28
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 26 happened was that the mass concrete which was used was proposed at the initiative of Leighton but MTR and Leighton jointly agreed to this proposal because, firstly, it reduced the cost of the works, which was a value engineering exercise, particularly important under a target cost contract, and secondly it was environmentally friendly. But we emphasise the type of the concrete used to backfill the area was mass concrete, which was the same type of concrete as the concrete to be poured. There was absolutely nothing in Jason Poon's allegation at all that in fact the wrong sort of concrete had been used. We emphasise that Leighton used the same material for backfilling as the material to be poured in the area, simply to act as a deadweight to counter hydrostatic uplift, and indeed again there is absolutely no public safety or structural concern arising from the backfilling. So those two matters dampness, wrong sort of concrete we would say you can dismiss; you don't need to worry about that at all. Moving on to the third ancillary matter, honeycombed concrete at the soffit of the EWL track slab. The	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $	Page 28 keep you updated as and when further progress in this regard is made. That's the matter that I was respectfully saying that you would be in a position to park until you know something about that. So they are the ancillary matters. I'm now going to say just a little bit about MTR's obligations under the entrustment agreement, because of course the construction of the SCL was undertaken by MTR pursuant to an entrustment agreement dated 29 May 2012. And under this entrustment agreement, you will not be surprised to hear that both the government and MTR had a number of important duties and responsibilities. This is dealt with in the witness statements. See, for example, Philco Wong's statement dated 14 September, B1/140-142. Importantly, and we have to accept this, by clause 4.1, the MTR agreed to carry out or procure the carrying out of the entrustment activities which included the following, as defined in the agreement itself: the railway works, the responsioning remedial and improvement works, the property development enabling works, and finally the interfacing works. You will not
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Page 26 happened was that the mass concrete which was used was proposed at the initiative of Leighton but MTR and Leighton jointly agreed to this proposal because, firstly, it reduced the cost of the works, which was a value engineering exercise, particularly important under a target cost contract, and secondly it was environmentally friendly. But we emphasise the type of the concrete used to backfill the area was mass concrete, which was the same type of concrete as the concrete to be poured. There was absolutely nothing in Jason Poon's allegation at all that in fact the wrong sort of concrete had been used. We emphasise that Leighton used the same material for backfilling as the material to be poured in the area, simply to act as a deadweight to counter hydrostatic uplift, and indeed again there is absolutely no public safety or structural concern arising from the backfilling. So those two matters dampness, wrong sort of concrete we would say you can dismiss; you don't need to worry about that at all. Moving on to the third ancillary matter, honeycombed concrete at the soffit of the EWL track slab. The situation here is that to date the following tests have	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	Page 28 keep you updated as and when further progress in this regard is made. That's the matter that I was respectfully saying that you would be in a position to park until you know something about that. So they are the ancillary matters. I'm now going to say just a little bit about MTR's obligations under the entrustment agreement, because of course the construction of the SCL was undertaken by MTR pursuant to an entrustment agreement dated 29 May 2012. And under this entrustment agreement, you will not be surprised to hear that both the government and MTR had a number of important duties and responsibilities. This is dealt with in the witness statements. See, for example, Philco Wong's statement dated 14 September, B1/140-142. Importantly, and we have to accept this, by clause 4.1, the MTR agreed to carry out or procure the carrying out of the entrustment activities which included the following, as defined in the agreement itself: the railway works, the essential public infrastructure works, the reprovisioning remedial and improvement works, the property development enabling works, and finally the interfacing works. You will not be surprised to hear that in return, and under clauses

	Page 29		Page 31
1	money.	1	COMMISSIONER HANSFORD: Sorry, Mr Boulding, can I interrupt
2	But staying with MTR's responsibilities and duties	2	just one moment?
3	for the present because of course that's what's under	3	MR BOULDING: Of course you can.
4	the focus of the Commission of Inquiry we accept, we	4	COMMISSIONER HANSFORD: In paragraph 39 of your written
5	emphasise, that pursuant to clause 4.1, MTR had to carry	5	statement, and you have just referred to it, where you
6	out or procure the carrying out of the entrustment	6	talk about "the 'concession approach' 'to which the
7	activities in accordance with all applicable laws,	7	Buildings Ordinance is not applicable' [and it is]
8	regulations, bylaws, the Mass Transit Railway Ordinance,	8	therefore applied contractually (with modifications)
9	the operating agreement, and the entrustment agreement.	9	under the terms of EA3" will evidence take us to
10	It didn't stop there because by clause 4.4 we had to	10	further details of what you are referring to in that
11	comply with and satisfy all relevant statutory or other	11	paragraph?
12	legal requirements applicable to the entrustment	12	MR BOULDING: We would say, sir, that we don't need evidence
13	agreement, including, without limitation, the obtaining	13	on that because that would be a matter of law, but
14	of all requisite licences, authorisations, permits,	14	obviously, if you have any questions for any of the
15	approvals or exemptions.	15	witnesses who you think can assist you on that matter,
16	Then finally, I think, in the context of clause 4,	16	you can either tell me and I will elucidate that
17	clause 4.6(c), we had to act in accordance with MTR's	17	in-chief, alternatively you could raise the questions
18	management systems and procedures, much of which you	18	yourself.
19	have heard already.	19	COMMISSIONER HANSFORD: For my part, I would like to
20	We also gave a warranty, you will not be surprised	20	understand in greater detail what's being said in
21	to hear this was clause $5.1(a)$ that related to the	21	paragraph 39.
22	provision of our project management services, and we	22	MR BOULDING: Okay. We will do that.
23	warranted that the entrustment activities would be	23	Thank you for that interruption, sir, and we will
24	carried out with the skill and care reasonably to be	24	deal with that.
25	expected of a professional and competent project manager	25	They are our responsibilities, but what about
	Page 30		Page 32
1	and whose role included the procurement, coordination,	1	Leighton's duties and responsibilities? As you have
2	administration, management and supervision, including	2	heard, they were the main contractor, registered general
3	testing and examining the plant, goods, materials and	3	building contractor, appointed by the MTR for the
4	workmanship of the design and construction of the works.	4	construction of the works under the contract. It was
5	We do not shy away from the fact that we had those	5	a target cost contract, as I've said, and Leighton's
6	obligations and indeed we say that we complied with	6	obligations included ensuring the compliance, quality,
7	them.	7	safety and integrity of the works, and in particular
8	I do emphasise that the entrustment agreement	8	that related to the system of supervision, the
9	clause 35.1 acknowledges that the SCL project was	9	monitoring, the inspection and the reporting. And we
10	constructed under the concession approach, "to which",	10	know already, because we have heard, that Leighton
11	and I quote, "the Buildings Ordinance is not	11	appointed various domestic sub-contractors for the
12	applicable". We say that the Buildings Ordinance is	12	contract, including BOSA, Intrafor, China Technology and
13	therefore applied contractually, with modifications,	13	Fang Sheung.
14	under the terms of the entrustment agreement.	14	We emphasise that MTR was not required to
15	So, just drawing those threads together, we would	15	communicate or deal with Leighton's sub-contractors and
16	say that it can be seen that the MTR had various	16	indeed we did not do so. I don't want to say anything
17	important obligations and responsibilities under the	17	more about Leighton at the moment. I might return to
18	entrustment agreement in relation to the contract,	18	that in due course. But I would like to move on and say
19	specifically as the project manager therefor, and it was	19	a little bit about MTR's interaction and relationship
20	principally responsible for the safety aspects of the	20	with the government on site and on a day-to-day working
21	construction of the works to be executed, the progress	21	basis.
22	of the works in accordance with the programme, the	22	We say that there was obviously substantial
23	quality of the works in accordance with the terms and	23	interaction between MTR and the government so far as the
24	specifications of the contract, and the budget for the	24	project was concerned, and indeed MTR's PIMS, that you
25	works.	25	heard about already, provided that various of the MTR's

	Page 33		Page 35
1	departments were responsible for interacting with	1	the NSL track slab commenced in December 2015 and ender
2	government on their respective areas of the works, and	2	in May 2016.
3	these departments included the project engineering	3	When those works were going on, you might ask what
4	department, the civil & planning department, the project	4	systems and measures did MTR implement to ensure that
5	safety department, the project management department,	5	steel bars in the diaphragm walls and the platform slabs
6	and the town planning department. And PIMS also	6	were properly installed and connected?
7	referred to the need for numerous meetings for various	7	Well, first of all, I emphasise that under the
8	purposes, a number of which were attended by government	8	instrument of exemption and the Buildings Department's
9	departments. These included important matters such as	9	requirements and conditions imposed upon MTR under the
10	cost control, site safety safety, I emphasise that	10	entrustment agreement, under those conditions MTR was
11	again land surveys, electrical and mechanical works,	11	obliged to submit site supervision plans to the
12	the environment, design, consultants and contractors'	12	Buildings Department before the commencement of the
13	performance reports, and finally audits.	13	relevant works. And these site supervision plans were
14	But it didn't stop there, because there was	14	both sophisticated and detailed, and of course covered
15	a project management plan for the design and	15	the couplers. The process was that MTR and Leighton
16	construction of the SCL, which included a three-tier	16	would jointly prepare a site supervision plan which
17	meeting protocol at working level, management level and	17	would set out details of the name, the grade and the
18	senior management level. And MTR's interfacing with	18	number of the responsible technically competent
19	government involved it in preparing for RDO, Railway	19	responsible persons who would carry out the inspections
20	Development Office, monthly progress reports on	20	as well as their frequency levels. And the site
21	entrustment activities for the SCL project on all	21	supervision plans would then be implemented by three
22	matters of concern regarding the SCL project. Now, this	22	different functional streams, firstly the competent
23	included progress, as one would expect, safety, and	23	persons' stream; secondly, the registered geotechnical
24	cash flow and expenditure. There were also regular	24	engineers' stream; and thirdly the registered
25	meetings held between MTR representatives and the	25	contractors' stream.

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	6	
1	government, such as the SCL monthly progress meetings.	1
2	Now, in these meetings, MTR's representatives,	2
3	representatives of the RDO, Railway Development Office,	3
4	and Pypun, who were the RDO's consultant who assisted	4
5	RDO in reviewing plans, carrying out site inspections	5
6	and witnessing tests, they'd all discussed varying	6
7	issues relating to the SCL project, and it will be	7
8	interesting to see, when we get Pypun's witness	8
9	statements, which I understand we are going to get, what	9
10	they knew about what was going on on site.	10
11	But in any event the matters that were discussed	11
12	included, again, safety, design management, project	12
13	management, stakeholder engagement, and programming.	13
14	So we would say that the government were kept fully	14
15	informed and indeed by having Pypun on site in effect	15
16	had their own eyes and ears in terms of what was going	16
17	on.	17
18	Now, when were the construction of the steel fixing	18
19	works in the diaphragm walls carried out? No great	19
20	dispute about this. The construction of the steel	20
21	fixing works in the diaphragm walls commenced in July	21
22	2013 and ended in May and June 2015. The construction	22
23	of the steel fixing works in the EWL slab commenced in	23
24	2015, March 2015, and ended in August 2016. Then,	24
25	finally, the construction of the steel fixing works in	25

Each of these streams was required to have a representative and technically competent person who was responsible for carrying out the inspections, and the duties and responsibilities of the various representatives and the technically competent persons relating to site supervision and safety are set out in tables 4.1 to 4.4 of the Code of Practice for Site Supervision 2009, which I can tell you was issued by the Buildings Department for the purpose of providing guidance to practitioners on the adoption of good practices for site supervision.

The competent person, the registered geotechnical engineer and the authorised signatory, all three streams of course had to devise checklists for themselves and their respective technically competent persons to carry out site inspections. And if any item on the checklist proved to be unsatisfactory upon inspection, and posed an imminent danger or material concern for safety, the following procedure had to be adopted. The technically competent person had to complete a non-conformity and rectification report, which was in form B to the Code of Practice, to record the details of the non-conformance, and once that had been done the competent person or the registered geotechnical engineer had to issue instructions to Leighton to rectify the non-conformity

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1	and, in addition, notify the Buildings Department.	1	that signed report had to be provided on completion of
2	After Leighton had completed the rectification works	2	the mechanical splice works.
3	to the satisfaction of the competent person or the	3	Now, what happened in practice was that on 12 August
4	registered geotechnical engineer, the competent person	4	2013, the MTR submitted to the Buildings Department the
5	or the RGE would certify completion of the rectification	5	document entitled. "Ouality Supervision Plan on Enhanced
6	works in the non-conformity and rectification report.	6	Site Supervision & Independent Audit Checking by MTR and
7	So it was a tight procedure which was to be operated	7	RC for Installation of Couplers". and that's document
, 8	on site and it hears emphasise that the Buildings	8	B5/2640-2658. I don't think we need to turn it up, but
g	Department's requirements and conditions included a set	9	it's important that this quality supervision plan
10	of conditions entitled "Mechanical couplers for steel	10	appended BOSA's technical manual for the installation of
11	reinforcement bars for ductility requirements" and MTR	11	couplers and stated the quality control and assurance
12	had to comply with this when progressing with the steel	12	schemes therefor
12	fiving works within the dianhragm walls the EWI slah	12	In order to comply with the Buildings Department's
13	IIXIIIg WORKS WITHIN the trapinagin wans, the Ewel shat	13	requirements MTP submitted six batches of quality
14	This document contained various conditions. The	14	supervision reports of the coupler for diaphragm wall
13	I ms document contained various conditions. The	15	supervision reports of the coupler for mapmagni wan
10	first condition was that an experienced and competent	10	barrettes to the Bulldings Department, and this was as
1/ 10	person had to be provided to ensure that mechanical	1/	part of the submission for completion of the works for
18	splice works were properly supervised, and that was so	18	the foundation load-bearing diaphragm wall barrene. It
19	that they were carried out in accordance with the agreed	19	did this to confirm that the quality supervision had
20	proposal and that they were also of the required	20	been adequately provided in respect of the diaphragm
21	quality.	21	walls.
22	There was also a condition that a copy of the	22	It bears emphasis that MTR was obliged to prepare
23	manufacturer's quality assurance scheme had to be	23	and implement a project management plan to demonstrate
24	submitted to the Buildings Department prior to the	24	that its proposed management process complied with the
25	commencement of the mechanical coupler works.	25	exemption requirements under the instrument of
	Page 38		Page 40
1	Then, thirdly, there was also a condition,	1	exemption, and it did this in the form of a project
2	an important condition, that the quality supervision	2	management plan for the design and construction of
3	plan of the competent person and the registered general	3	Shatin to Central Link, and this outlined the scope of
4	building contractor also had to be submitted to the	4	the works for the SCL project. In addition, in
5	Buildings Department prior to the commencement of the	5	high-level terms, it explained how the MTR would manage
6	mechanical couplers' works.	6	the SCL project, and it also set out the responsibility
7	In terms of the degree of inspection required,	7	of different levels of MTR's professional staff.
8	I emphasise that the quality supervision included the	8	Now. it bears emphasis that MTR regularly reviewed
9	following details. Firstly, the frequency of quality	9	and updated this project management plan to take into
10	supervision of the mechanical coupler works which had to	10	account any changes in personnel arrangements as well as
11	be at least 20 per cent of the splicing assemblies by	11	MTR's project management procedures.
12	the competent persons, quality control supervisor and	12	Of course, at the same time. MTR also implemented
13	full-time continuous supervision by the registered	13	PIMS I mentioned Leighton's obligations under
14	general building contractor/quality control coordinator.	14	contract 1112 in terms of execution of the works, but
15	Secondly, the frequency of quality supervision for	15	I would like to say just a little bit more about their
16	the couplers used at the top of the pile cap and the	16	obligations under contract 1112 in terms of supervision
17	transfer plate that had to be at least 50 per cent of	17	monitoring and inspection of the works. You will not be
18	the splicing assemblies by the competent person's	18	surprised to hear that contract 1112 imposed obligations
10	cuelity control supervisor and full-time continuous	10	on Leighton to ansure that the steel hars in the
20	quality control supervisor and run-time continuous	20	disphram walls and the EWI and the NSI platform slabs
20	supervision by the registered general bunding	20	unaphilagin wans and me Ew L and the rost platform shares
21	Contractor. So that was that.	21	were property installed and connected. Specificarly,
22	But, importantly, the competent person had to sign	22	the contract required Leightons to compry with wirk's own
	a duality supervision report and submit if to the	- 23	project management systems and procedures those

24 Buildings Department to confirm that the requisite systems and procedures are of course what I've already 25 quality supervision had been adequately provided, and referred to -- and these provided detailed guidelines

10 (Pages 37 to 40)

for both MTR and Leighton's personnel to follow.

embedded within the construction contract, so that

The reality of the situation was that MTR's PIMS was

Leighton was required to comply with the requirements

stipulated in the instrument of exemption and indeed to	5	a copy of Leighton's NCR as issued to its contractor,
adopt a certified quality management system for the	6	its sub-contractor, and it got this so that it could
construction of the works, and that's set out in its	7	ensure that it was properly carried out and indeed
General Specification.	8	oversee the matters.
Of particular importance was the fact that Leighton	9	Now, in terms of the site supervision and inspection
was required to submit a quality assurance plan for	10	of the EWL slab construction process, including the
MTR's approval and to implement an effective quality	11	installation of couplers, it seems to me that I can
management system in accordance with the quality	12	summarise it accurately as follows. First of all, each
assurance plan. And this quality assurance plan set out	13	rebar cage for a given diaphragm wall is prefabricated
how Leighton would manage and control the quality of the	14	by the steel fixing sub-contractor in the bending yard
works to comply with MTR's requirements under	15	or in situ at the panel location, and we heard about
contract 1112.	16	that yesterday from my learned friend Mr Cohen. But
Now, it's important to emphasise that each and every	17	once this had been fabricated, at Leighton's request,
panel of the diaphragm wall was covered by an RISC form	18	MTR's inspectors would inspect it to check that firstly
and/or a countersigned shop drawing showing the rebar	19	it complied with Leighton's or Intrafor's shop drawings,
cages in the diaphragm walls. This was to confirm, so	20	and secondly that it complied with the method statement
far as the MTR is concerned, that it had properly	21	for diaphragm walls.
inspected all the rebar cages and the diaphragm wall	22	Now, in terms of the sequence, the sequence was as
panels.	23	follows. The installation of the rebar cages into the
Now, other than the formal inspections at the hold	24	trenches started with the rebar cage at the bottom of
points. MTR's inspectorate team, which of course was	25	the trench, which of course were typically prefabricated
Page 42		Page 44
generally on site on a continuing basic was also	1	at the handing word as Mr Cohen told us. Then it
responsible for carrying out regular site surveillance		at the behaving yard, as will content total us. Then it
to monitor the day to day works of Leighton, and this		bottom upwards. And then the process was that each new
of course was to identify any concerns or issues as		lower of rober acce had to be fixed to the lower below
or course was to identify any concerns or issues as	4 5	with couplers, turically using what were referred to as
ball sighter as researchers and comparations		with couplers, typically using what were referred to as
by Leighton as necessary and appropriate.		type B connections. At that point, the coupler splicing
And II M I R Identified a significant non-conforming		assemblies would be inspected and checked.
product during its inspection of Leighton's works, first	8	Now, Leighton's engineers, sub-agents, site agents,
of all, MTR could issue an NCR to Leighton, and if this	9	whatever, would normally request MTR to inspect the
occurred what then happened was that the non-conforming	10	rebar cages for a panel by submitting RISC form, and
works had to be corrected and rectified before Leighton		then, after completion of the diaphragm works, the rebar
proceeded to the next stage of the works or indeed	12	fixing works for the EWL slab would be carried out bay
before the works were covered up.	13	by bay. There would then be hold point inspections and
If this NCR was raised to Leighton, Leighton had to	14	relevant RISC forms for the rebar fixing works in each
propose corrective measures to the MTR to rectify the	15	bay with the top and bottom layers of the rebars in each
works and to eliminate the causes of non-conformance to	16	bay typically inspected on separate occasions.
prevent a recurrence. And if MTR approved that	17	Now, these hold point inspections for the rebar
proposal, Leighton could proceed to execute those	18	fixing works in the EWL slab were carried out largely by
corrective measures or preventive actions to correct the	19	reference of the working drawings, as I mentioned
non-conforming works, and of course at that point MTR's	20	already, and these working drawings were prepared by
construction management team had to take the necessary	21	Atkins' team A, who were MTR's design consultant for the
follow-up measures to ensure that the issues had been	22	contract. These working drawings would of course have
properly closed out.	23	been issued by the MTR to Leighton for construction
In the event that Leighton Leighton, not MTR	24	purposes, and MTR's contract engineers, it must be
identified any non-conforming works. I sighten had to	25	emphasised also used their engineering experience and

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follow the relevant quality procedures of its own

certified quality management system as approved by MTR's

project team, and Leighton did this by issuing its own

NCRs to its sub-contractors, but in fact MTR also got

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11 (Pages 41 to 44)

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1	professional judgment when carrying out the inspections.	1	already in the layer immediately below, so as to confirm
2	Now, in addition to the hold point inspections, as	2	that the length and alignment of the threaded ends of
3	requested under the RISC form, whilst the prefabrication	3	the rebars, screwed into the couplers, conformed to the
4	or in situ fabrication of the rebar cages at the	4	requirements under the quality supervision plan. And,
5	diaphragm walls and the rebar fixing works in the EWL	5	as one would expect, this checking process was intended
6	slab was being carried out, the MTR inspectors were	6	to minimise, if not totally exclude, the risk of
7	often present on site as part of their routine site	7	non-conformance in the splicing assemblies.
8	activities. But when they were on site, MTR's	8	Moving on to the detail of the type A splicing
9	inspectors were obviously conscious of and relied upon	9	assemblies, when MTR's inspectors conducted site
10	Leighton's obligations to provide continuous site	10	surveillance of the EWL slab works, they generally pay
11	supervision of all the works, and that's what they say	11	attention to whether they were within the tolerance of
12	in their witness statements. And of course they were	12	not more than 1 to 1.5 full pitches of threading being
13	not expected to scrutinise each and every single work	13	exposed, in accordance again with the requirements set
14	activity carried out by the workers on the site.	14	out in the quality supervision plan. And MTR's relevant
15	The couplers which were used in the construction	15	personnel's evidence, and I assume you have read this,
16	process had to be installed in accordance with the	16	is that experienced inspectors could use a visual
17	quality supervision plan, and by way of summary only,	17	inspection with the assistance of a tape measure to
18	I would say that for the type A connections which were	18	measure the length of the threaded end, to verify
19	described to you yesterday, the rebar itself was rotated	19	whether the couplers had been properly connected, and
20	and screwed into a coupler fixed to another rebar, and	20	indeed no special equipment had to be used.
21	the length of the threaded end of a type A rebar had to	21	We do not shirk from repeating the point that in the
22	be half of the length of the coupler.	22	event that there had been wholesale non-compliance in
23	For type B connections there were two types,	23	terms of the cutting of the threaded ends of rebars and
24	type A and type B the couplers were completely	24	such rebars not being properly screwed into couplers,
25	screwed into the threaded ends of the rebars of one	25	the extensive checking process to which they were
	Page 46		Page 48
1	Page 46 cage, and after that the cage had to be properly aligned	1	Page 48 subjected, as I just described, would have discovered
1 2	Page 46 cage, and after that the cage had to be properly aligned with another cage and it would be rotated and screwed	1 2	Page 48 subjected, as I just described, would have discovered the non-compliance.
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12 (Pages 45 to 48)

	Page 49		Page 51
1	occurrences, but in particular when MTR personnel became	1	say they ran into Jason Poon regularly, sometimes during
2	aware of the allegedly defective steelworks, apart from	2	site walks which he accompanied them on. Poon also
3	of course those five occurrences.	3	attended some of MTR's weekly works meetings where any
4	We say that apart from the likely five occurrences.	4	concerns relating to the works would be discussed, but
5	MTR first became aware of the alleged continued	5	remarkably Jason Poon nor anyone else from China
6	existence of the defective steelworks at the end of May	6	Technology ever brought up the issue regarding the
7	2018 from the press reports.	7	cutting of steel bars.
8	Now, it does bear emphasis that before this, MTR had	8	We do not shirk from saying that Jason Poon's
9	been provided with an email from Jason Poon to Leightons	9	allegations in his media interviews, that he told MTR
10	dated 6 January 2017, which my learned friend Paul Shieh	10	representatives, including Rooney, about the cutting,
11	referred to yesterday, wherein he alleged that there was	11	are pure fantasy. And you will have heard from
12	the malpractised use of couplers on contract 1112.	12	Mr Paul Shieh's opening yesterday that Leighton regard
13	It bears emphasis that Mr Zervaas's evidence he's	13	Poon's allegations as similarly fantastic.
14	Leighton's project manager concerning in this email	14	We agree with them that Jason Poon's real motivation
15	is as follows. It came out of the blue, this email. It	15	appears to be that he made his allegations false
16	was the first time he had ever heard of this alleged	16	allegations, we would say concerning the alleged
17	malpractice, and this was despite the fact that the	17	defective steelworks to pressurise Leighton into paying
18	allegations appeared to relate to events back in 2015.	18	China Technology substantial additional moneys which it
19	Now, a few weeks later you have probably read our	19	contended it was due in respect of the sub-contract
20	evidence Aidan Rooney says that on the basis of his	20	works, and it was only, it would appear, after this
21	understanding of events on site, he thought that the	21	tactic failed that Jason Poon went to the press and the
22	coupler issue had been satisfactorily resolved and he	22	TV stations with his incredible and unsubstantiated
23	told Philco Wong that that was the situation.	23	allegations that there were over 1,000 lengths of rebar
24	But then it didn't stop there because again, as we	24	and at one stage even up to 30,000 lengths of rebar that
25	saw yesterday, on 15 September 2017, Jason Poon sent	25	had been affected by this malpractice.
			5 1
	Page 50		Page 52
1	Page 50 an email to the Secretary for Transport and Housing of	1	Page 52 Obviously, and as was emphasised to you yesterday,
1 2	Page 50 an email to the Secretary for Transport and Housing of that date and MTR received a copy of that, and it was	1 2	Page 52 Obviously, and as was emphasised to you yesterday, the veracity of Poon's evidence will obviously be
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	Page 53		Page 55
1	an area for ducting to come through.	1	by the Buildings Department in March 2013. As I've
2	MR BOULDING: I think that's right, but it's referred to	2	said, the colours have been continued.
3	here as the OTE.	3	Then if we go over to slide 4, this is important.
4	CHAIRMAN: OTE, yes. I have it.	4	It's the original design, again as accepted by the
5	MR BOULDING: Yesterday, Mr Pennicott raised the point about	5	Buildings Department in March 2013, and there are
6	the change not being uniform. He is correct. We've not	6	various points to note. Firstly, note 1, connections of
7	had an opportunity yet to try to agree this with	7	the bottom layer of rebar in the EWL slab are not shown.
8	Leighton, as I think Mr Pennicott suggested, but the	8	That's to simplify it. Before these rebars, the two
9	matter is dealt with in MTR Louis Kwan's witness	9	rows of rebars below the two rows of rebars at the
10	statement, paragraph 39. That's bundle WS2, tab 68, at	10	top, there are in fact more rows of rebar, and that's
11	pages B384-385. He says, in short, that there were	11	located further down in the pink area.
12	still 14 panels with couplers.	12	We also point out that for the purpose of
13	For the record, that's EH40, EH44, EH45, EH48, EH50,	13	simplifying it, we only show the transverse rebars.
14	EH51, EH57, EH69, EM70, EH71, EM72, EH73, EH74 and EH75	. 14	That's the sort of golden colour going into the pink.
15	So far as this slide show is concerned, sir, we hope	15	There are in fact longitudinal bars as well going across
16	you are going to find it helpful. There are	16	those transverse bars, but for the purposes of
17	introductory remarks and we emphasise that it is	17	simplifying it we do not show it.
18	a schematic illustration, and the diagrams are	18	Typically, we emphasise, there are two rows of
19	simplified and indicative only; they are not to scale.	19	rebars with couplers at the top of the slab, and you can
20	The as-built drawings in due course will reflect the	20	see those likely golden rings, and they depict the
21	as-built connections between the EWL slab, the OTE slab	21	couplers, and the rebars were intended to go into those
22	and the east diaphragm walls, and they are being	22	couplers, and I just ask you to note that whilst there
23	prepared, and of course in due course they will be	23	are not measurements on the slide, the rebar is fixed
24	submitted to the Buildings Department.	24	at uniform 150 millimetre centre-to-centre spaces.
25	The first slide comes up, please. It is in colour.	25	So, so far, so good. Then if we go on to the next
	Page 54		Page 56
1	Splendid. What I would ask you to note from that is	1	slide, please, 5. Again, this is the original design as
2	that it is the original design as accented by the	2	accented by the Buildings Department in March 2013 and

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2	that it is the original design as accepted by the
3	Buildings Department in March 2013, and this depicts
4	areas B and C of the EWL slab. The diagram is obviously
5	simplified and indicative and it's extracted from the
6	working drawing which is referred to under the slide, at
7	the bottom of the slide.
8	The diagram shows, on the left, in green, the EWL
9	slab, in the middle, the D-wall, and then the OTE slab,
10	coloured green, pink and a lilac colour respectively,
11	and they are carried through.
12	What I do ask you to notice, sir, is that at the top
13	of the EWL slab the pointer is not working you can
14	see two horizontal bars and they depict two rows of
15	rebar, and that's T1 and T3. If you follow them just
16	into the pink of the D-wall, you can see that there are
17	two couplers there; do you see them, two couplers?
18	CHAIRMAN: Yes.
19	MR BOULDING: Splendid. Obviously, that shows the two
20	couplers with the rebar being connected to them.
21	We are going to have to come back to this in due
22	course when I deal with the change of U-bars at the top
23	of the wall, but that will suffice for present purposes.

If we could go to slide 2, please, this is a very

simplistic depiction of the original design as accepted

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slide, please, 5. Again, this is the original design as accepted by the Buildings Department in March 2013, and this is a cut-away drawing to show what was going on in the diaphragm wall. You can see that what was happening in there is that, on the other side of the couplers, there were two layers of rebar in the EWL slab which were connected to two layers of top L-bars cast within the D-wall. You can see the L-bars there, bending as they get to the right-hand side of the diaphragm wall, and that again was accepted. That design was accepted.

Then if we could go over to slide 6, please, and this is the revised design wall detail during the D-wall construction. This arrangement was reflected in Intrafor's shop drawings at the time of the construction of diaphragm walls, as well as in the BA14 as-built submissions to the BD for the diaphragm walls which was accepted by the Buildings Department on 5 May 2017.

What you can see, sir, is that the blue pipe, it's the tremie pipe which is used for concreting, there was a problem with the fact that the tremie pipe clashed with the rebar which was to be constructed or located in the D-wall. So the two rows of couplers and the rebar which we saw on the previous slide has been re-arranged to three or four rows. Indeed, instead of the bent bars we saw in the previous slide, we have couplers

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intent which I showed you two or three slides ago.

By using those three bars in areas B and C, sir, we

	Page 57		Page 59
1	connecting through to straight bars.	1	say there was no longer any need to use couplers, as
2	Now, it bears emphasis that this revised D-wall	2	there was no joint or connection between the top layers
3	design was ultimately accepted by the Buildings	3	of the EWL slab and the diaphragm wall, and indeed
4	Department in 2017. The bundle reference is provided	4	between the diaphragm wall and the OTE slab.
5	there.	5	We do emphasise that the detail as constructed was
6	But it didn't stop there because if we can now go to	6	consistent with the design of the top layer of the slab
7	the next slide, slide 7, this is the as-built condition	7	rebars reflected in the working drawings current at the
8	of the D-wall in 2015. What then happened is that the	8	time when the rebar fixing works for the EWL slab
9	requirement for monolithic casting of the EWL and the	9	commenced, ie again I emphasise that the rebar is
10	OTE slabs meant that the top of the east diaphragm wall	10	uniformly spaced and there are generally two layers of
11	had to be hacked off by about 400 to 500 millimetres.	11	reinforcement.
12	It followed that the top layer of cast-in couplers,	12	Then finally, to go over to 10, this is a simplified
13	that's the three to four top layers of couplers as shown	13	version of what was actually constructed. You can see
14	in the amended details reflected in the BA14 as-built	14	on the left-hand side the uniformly spaced two rows of
15	submissions to the Buildings Department, had to be	15	rebars, which go right the way through the dappled grey
16	hacked off.	16	area.
17	COMMISSIONER HANSFORD: Could I just understand does that	: 17	I repeat myself but it's nevertheless an important
18	mean they were therefore discarded?	18	point: MTR's construction team considers that the change
19	MR BOULDING: Yes.	19	was only a minor one, from an engineering perspective,
20	COMMISSIONER HANSFORD: Right. Thank you.	20	and moreover, and importantly, did not affect the
21	MR BOULDING: If you just imagine coming down, Professor,	21	overall structural stability of the diaphragm walls and
22	the top 400 or 500 millimetres, everything that's shown	22	the EWL slab. Again, and I'm sorry to repeat myself,
23	there, chipped off, thrown away.	23	but it's an important point, it was indeed a better
24	COMMISSIONER HANSFORD: Right.	24	connection detail as the number of joints there would
25	MR BOULDING: Then we have a situation and I ought to say	25	remove or at least reduce the number of workmanship
	Page 58		Page 60
1	that the hacking off was not approved. There is, as	1	issues which might come into play.
2	Leighton said yesterday, a debate as to whether or not	2	Now, Leighton and Atkins team B Atkins team B,
3	it was accepted. Leightons say that the Buildings	3	you have heard, were the team of consultants from Atkins
4	Department knew about it. Frankly, our position is we	4	who were advising Leightons should have submitted the
5	are not so sure. But that's the situation as	5	proposal for the change in the permanent works design to
6	I understand the opening position of Leighton at the	6	MTR's design management team, and Atkins team A, who
7	moment.	7	of course were advising MTR, for review and approval, so
8	Coming on to the next slide, slide 8, if I may, this	8	that, having looked at it and approved it, they could
9	details during the construction of the EWL slab in	9	have issued working drawings for construction to
10	2015-2016 part of the D-wall demolished, and one can see	10	Leighton.
11	by the light pink what was chipped off.	11	But unfortunately, that didn't happen and the
12	Then, coming on to slide 9, and this is what's	12	consequence was that the changes would have to be
13	there. Details during construction of the EWL slab,	13	reflected in the final as-built submissions for the EWL
14	2015 to 2016. Now, as the three or four rows of cast-in	14	slab.
15	couplers at the top of the east diaphragm wall had been	15	So that, I hope, sir, is a helpful but simplified
16	hacked off, and there was no longer any clash with the	16	summary of what occurred. You will see that some of the
17	tremie pipes necessitating the re-arrangement of rebars,	17	witnesses speak to that, as one would expect, in
18	what happened was that it was agreed between MTR's	18	considerably more detail than I have, purely for the
19	construction team and Leighton that two rows, ie rows T1	19	purpose of trying to explain it in simplified terms, and
20	and T3, of the top layer through-bars would be used to	20	I hope I have achieved that.
21	connect the EWL slab to the east diaphragm wall, again,	21	Whilst we are with the slides, sir, I do want to
22	with a uniform spacing of 150 millimetres	22	respond to my learned friend Ian Pennicott's point about
23	centre-to-centre, consistent with the original design	23	the change in reinforcement steel detailing in the east

diaphragm wall, the top of the east diaphragm wall, in Intrafor's works. This matter is raised specifically by

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1	Mr Pennicott in paragraph 34 of his opening statement,	1	There's no doubt about that. It's referred to in Mr Ho
2	and for this purpose I need to go back to slide 2, if	2	Hon Kit's witness statement at paragraphs 55 to 56.
3	I possibly could.	3	That's bundle WS2/96/H2203-2205.
4	If you look at slide 2, in the pink, you can see,	4	Hence, we would say there is no issue with this
5	sir, a U-bar going around the top of the D-wall. Thank	5	change in the reinforcement details of the east D-wall.
6	you very much. It looks as though the do you see the	6	Indeed, it has been closed out by the Buildings
7	U-bars?	7	Department and in fact it's of historical interest only.
8	The original design of the east D-wall for areas B	8	So, sir, that's all I intended to say about the
9	and C, as accepted by the Buildings Department in March	9	slides. I've just got one more issue to deal with,
10	2013, had those U-bars in it.	10	which I can take fairly shortly, and it's something that
11	Then, in addition, if we go to slide 5 again,	11	I need to face head-on. That was the matter of the
12	please it's something I have mentioned we can see	12	retrospective coupler installation checklists.
13	that the two layers of top rebars in the EWL were	13	The situation here is that MTR staff prepared
14	connected to two layers of top L-bars cast within the	14	retrospective coupler installation checklists, and
15	D-wall. If you look there, you can see the L-bars.	15	I want there to be no doubt as to when, why, and for
16	What happened, sir, is that in practice the	16	what purpose, they were prepared.
17	implementation of that design faced considerable	17	As I've mentioned already, the quality supervision
18	challenges in terms of its construction. That was, in	18	plan required the quality control supervisor record
19	particular, because of the spatial constraints and rebar	19	sheets which applied to all splicing assemblies to be
20	congestions at the top of the D-wall.	20	kept by Leighton in an inspection logbook on site for
21	Just to go to slide 6, please, to resolve those	21	inspection, and indeed MTR's inspectors, in this case
22	constructability issues, Intrafor and Leighton made the	22	the senior inspector of works, was charged with
23	following changes with which Atkins agreed. They	23	monitoring compliance with this requirement.
24	deleted the top U-bars and replaced the top L-bars as	24	As you have already heard, on 6 January 2017, Jason
25	well by the straight rebars running from the EWL slab	25	Poon sent Leighton an email where he alleged that he had
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1	through into the D-wall slab and the OTE slab. They	1	found plenty of records concerning malpractice so far as
2	deleted all that, and the two layers of top rebars were	2	the couplers are concerned. Now, MTR were provided with
3	changed into three or four layers on both sides of the	3	a copy of this email, and as you would expect carried
4	tremie pipe.	4	out an internal quality assurance and quality control
5	But importantly, MTR were aware of this change at	5	review. As a result it was discovered, unfortunately,
6	the time it was made, as they were copied in to emails	6	that Leighton had not kept any record sheets or
7	when Leighton sought comments on its revised shop	7	inspection logbook. It also confirmed that MTR's
8	drawings from Atkins. But in circumstances where no	8	inspector of works had not been provided with any record
9	formal proposal had been made by Leighton to MTR for	9	sheets for countersigning.
10	a consultation submission to be made to the Buildings	10	What happened next was that after the media reports
11	Department in either years 2013 and 2014, what actually	11	on 30 May 2018 alleging defective steelworks and coupler
12	happened was that MTR raised a non-conformance report,	12	installations in the diaphragm walls and the EWL slab,
13	non-conformance report no. 21, dated 9 April 2015, in	13	on 13 June 2018, Leighton provided MTR with RISC forms
14	respect of these changes.	14	for each of the 32 bays in the EWL slab. These attach
15	But, and importantly again, the as-built condition	15	certain checklists entitled "As-built for on site
16	of the D-wall reinforcement details was reflected in six	16	assembly for EWL slab to D-wall/slab couplers". And MTR
17	batches of BA14 submissions for the D-walls to the	17	concluded that these were similar to, albeit not exactly
18	Buildings Department made between January 2015 and	18	the same as, the template which formed part of
19	Dunuings Department made between January 2015 and	10	
20	January 2016. In addition, this as-built situation, ie	19	appendix B to the quality supervision plan. They also
-	January 2016. In addition, this as-built situation, ie the deletion of the U-bars and the L-bars being replaced	19 20	appendix B to the quality supervision plan. They also concluded that they were obviously based on the
21	January 2016. In addition, this as-built situation, ie the deletion of the U-bars and the L-bars being replaced by straight-through rebar, was also the subject of	19 20 21	appendix B to the quality supervision plan. They also concluded that they were obviously based on the information contained in the as-built BA14 drawings for
21 22	January 2016. In addition, this as-built situation, ie the deletion of the U-bars and the L-bars being replaced by straight-through rebar, was also the subject of a permanent works design report submitted to the	19 20 21 22	appendix B to the quality supervision plan. They also concluded that they were obviously based on the information contained in the as-built BA14 drawings for the diaphragm wall as submitted to the Buildings
21 22 23	January 2016. In addition, this as-built situation, ie the deletion of the U-bars and the L-bars being replaced by straight-through rebar, was also the subject of a permanent works design report submitted to the Buildings Department on 30 July 2015.	19 20 21 22 23	appendix B to the quality supervision plan. They also concluded that they were obviously based on the information contained in the as-built BA14 drawings for the diaphragm wall as submitted to the Buildings Department.
21 22 23 24	January 2016. In addition, this as-built situation, ie the deletion of the U-bars and the L-bars being replaced by straight-through rebar, was also the subject of a permanent works design report submitted to the Buildings Department on 30 July 2015. Buildings Department accepted all batches of the	19 20 21 22 23 24	appendix B to the quality supervision plan. They also concluded that they were obviously based on the information contained in the as-built BA14 drawings for the diaphragm wall as submitted to the Buildings Department. However, because Leighton had never prepared any

	Page 65		Page 67
1	quality supervision plan, unfortunately MTR had nothing	1	information in the BA14 as-built drawings for the
2	to countersign to fulfil the requirements under the	2	diaphragm wall in respect of the relevant areas and
3	quality supervision plan.	3	bays.
4	What happened then is that MTR, realising this	4	Now, when did the balloon go up? It went up in
5	omission, took the necessary steps to urgently obtain	5	about July 2018, because at that point MTR's
6	information as to its compliance with the relevant	6	construction management team became aware of the
7	supervision and inspection requirements for the	7	inaccuracies in the coupler checklists. But by then,
8	contract, which I referred to before the coffee break.	8	unfortunately, the number of couplers as referred to
9	This revealed that its inspection team had in fact	9	therein had found its way into the 15 June report,
10	carried out sufficient quality control supervision in	10	contrary to all of the author's intentions and designs.
11	respect of the splicing assemblies in the EWL slab,	11	And MTR became aware of the inaccuracies in the coupler
12	albeit that unfortunately there was no contemporaneous	12	checklists at that stage, because by this time they had
13	paper trail.	13	had the opportunity to review the site photographs
14	In these circumstances, MTR's Derek Ma and Kobe Wong	14	documenting the rebar fixing works in progress for the
15	say that in 2018, they set about preparing a set of	15	purposes of the BA14 as-built submissions for the EWL
16	checklists to record the areas and the bays where the	16	slab. And of course, having seen those photographs and
17	MTR inspection team had carried out the requisite site	17	as I've referred earlier today, it was recalled that
18	surveillance.	18	a change had occurred back in 2015 concerning the
19	The checklists were dated 10 February 2017, after	19	connection detail at the top of the east diaphragm wall,
20	they had been prepared, but I emphasise they were	20	which I've just explained to you by way of the slides.
21	expressly marked as a retrospective record of coupler	21	Just to conclude this bit, again it is emphasised
22	installation. They were dated 10 February because they	22	there was absolutely no intention to deceive, and the
23	had been prepared in response to the follow-up action	23	explanation for the omission is that back in 2015, MTR's
24	recommended in MTR's internal review report dated and	24	construction management team did not consider the change
25	issued 8 February 2017.	25	to be major issues, and indeed there were considerably
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1	I also emphasise that they were to act as	1	more pressing matters for the MTR on-site team which
2	an internal reference point for the MTR only, to record	2	simply had to be dealt with on a day-to-day basis.
3	the areas and the bays where the coupler splicing	3	There we are, it's unfortunate, but that's the
4	assemblies were covered by the MTR's inspectors' daily	4	explanation and I've been told to be completely candid
5	site surveillance, and they were never intended to form	5	about it and I have been candid about it.
6	part of any submission to the Buildings Department or	6	Unless I can give you any further assistance, sir,
7	indeed the Railway Development Office. With that point	7	I have nothing further to say. I'm sorry I have overrun
8	in mind, they deliberately omitted MTR's logo from the	8	my time by a little bit.
9	sheets.	9	COMMISSIONER HANSFORD: Let's see if I have anything. No
10	The facts surrounding the preparation of the	10	that's fine. Thank you.
11	checklists and this is emphasised in the MTR witness	11	CHAIRMAN: Thank you very much.
12	statements were emphasised to the Buildings	12	Yes, Mr Khaw.
13	Department, the RDO and Pypun's representatives when	13	Opening submissions by MR KHAW
14	they were shown these coupler checklists at MTR's site	14	MR KHAW: Mr Chairman and Professor, perhaps at this stage,
15	office on 7 and 8 June 2018. All these facts were	15	unless one is a big fan of abbreviations, one might be
16	emphasised to them.	16	struggling to remember all the terms referred to by all
17	Now, MTR's construction team witnesses say that they	17	the parties so far. Unfortunately, I may need to
18	never had an opportunity to check the information in the	18	introduce a few more in the course of the government's
19	checklists against the final as-built condition of the	19	opening submissions, but hopefully, if these terms are
20	joint between the east diaphragm wall and the EWL slab.	20	used time and again during the course of these
21	This of course was because the final amendments to the	21	proceedings, they will start to become easier to
22	as-built drawings for the diaphragm walls had not at	22	comprehend and remember.
23	that stage been submitted by Leighton.	23	We can always have a quiz at the end of this
24	In preparing the checklists, the MTR	24	hearing.
25	representatives, Ma and Kobe Wong, had to rely on the	25	The Commission can see from our written opening that

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1	we aim to focus primarily on introducing the	1	is always a case of public concern, public expectations,
2	government's monitoring and control mechanism. While	2	regarding the safety of our railway system, which is of
3	doing so, Mr Chairman and Professor, we intend to refer	3	paramount public interest.
4	the Commission to some key documents. By doing so,	4	This is why the government has in fact fully
5	hopefully the references to the relevant documents at	5	committed itself to doing whatever it can to address and
6	this stage will lay some necessary groundwork which will	6	also hopefully alleviate public concerns by offering
7	help everyone understand the evidence from the	7	assistance to this Commission and also by conducting its
8	government better when our witnesses come forward to	8	own investigations and actions.
9	give evidence.	9	If I may then turn to paragraph 4 of my written
10	The government's monitoring system has primarily	10	opening. The government is highly concerned about the
11	been taken care of by two departments, namely the	11	suspected defective works and will do its utmost to
12	Highways Department, HyD, which is under the Transport	12	alleviate any concern over the issues of public safety
13	and Housing Bureau, THB, and the Buildings Department,	13	and quality of works. Since the media reports in May,
14	BD, which is under the Development Bureau, DevB. So two	14	the government has been taking active steps to
15	bureaus and two departments have become parties to this	15	investigate the matter. The government has also set up
16	Inquiry.	16	an expert adviser team this is probably an easy
17	If I may go to paragraph 3 of my written opening,	17	abbreviation, EAT to conduct an overall review of
18	there we say the suspected defective works were first	18	MTRCL's project management system and advise on the most
19	raised by the media in late May 2018, and since then	19	pragmatic methodology for MTRCL to ascertain the
20	there have been public concerns over the related safety	20	as-built condition and the structural safety of the
21	issues. One of the terms of reference of the Commission	21	diaphragm wall and platform slab construction works of
22	is to enquire into the facts and circumstances	22	the Hung Hom Extension.
23	surrounding such suspected defective works. It is	23	Perhaps just a bit of an update in this respect.
24	envisaged that there will be factual disputes on the	24	The THB. Transport and Housing Bureau, including the
25	nature, cause, extent and implications of the alleged	25	EAT, the panel, Highways Department and Buildings
	Page 70		Page 72
1	problems, which will obviously be closely examined by	1	Department have held a number of meetings over the past
2	the Commission	2	two months or so, for the purpose of following up on
3	Pausing here Mr Chairman and Professor some of the	3	this matter, because there are always concerns over the
1	submissions we heard vesterday have referred to the	4	uncertainty as to what was actually built inside the
5	evidence of Mr Isson Poon, the whistleblower in this	5	slabs and also the connections between the walls and the
6	case and no doubt his evidence will be under close	6	slabs and also the connections between the wans and the
7	scrutiny at this hearing and I believe there is likely	7	MTR has agreed to formulate a holistic strategy for
8	to be a competition at least between Mr Pennicott and	8	assessing the acceptability of the build structures
9	Mr Shieh on the number of questions they might have for	9	which would consider a variety of methods of diagnosis
10	Mr Jason Poon	10	including verification of available objective evidence
11	The government takes the view that it may be more	10	inspections tests through opening up the structures as
12	appropriate to conduct an evaluation of all the evidence	12	well as non-destructive tests
12	appropriate to conduct an evaluation of an the evidence	12	I also note from Mr Pennicott's opening vesterday
13	and we reserve our right to make submissions on the	13	that he has raised some queries on the work of EAT
14	and we reserve our right to make submissions on the	15	I would like to inform the Commission that the first
15	Lonly wish to add that even if Mr Isson Poon fails to	15	interim report of the EAT will become available very
17	prove his case, such an outcome will have a material	10	soon and in any event by the and of this month. The
19	impact on how the systems implemented by the parties	17	report will summarise the work that EAT has done so far
10	will be assessed by the Commission	10	and also their recommendations on the issues of
20	But from the government's point of view over if	17 20	structural integrity of the build structures at the
20	But from the government's point of view, even if	20 21	Hung Hom Station Extension. The covernment will
21	the day, that will not be the end of the matter	21 22	certainly keep the Commission informed of all further
22	the day, that will not be the chu of the matter.	44	containing keep the Commission mitormed of an further
1	Mr Shieh refers to whether there is a case to answer if	23	work to be conducted by the FAT
20	Mr Shieh refers to whether there is a case to answer if Mr Poon fails to prove his case. From the government's	23 24	work to be conducted by the EAT.
23 24 25	Mr Shieh refers to whether there is a case to answer if Mr Poon fails to prove his case. From the government's point of view, there is always a case to answer. There	23 24 25	work to be conducted by the EAT. Paragraph 5 of my written opening is the introduction of our monitoring and control mechanisms of

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1	the Highways Department, mainly, in this part, under	1	So I believe MTR's opening has picked up 35.1 and
2	THB.	2	they say the Buildings Ordinance is not applicable to
3	The SCL project is implemented by way of	3	SCL project, and hence the Buildings Ordinance, in their
4	a concession approach whereby the government funded the	4	words, is only contractual. That is how they describe
5	construction works and MTRCL was entrusted to implement	5	the regime.
6	the project.	6	Perhaps I just need to supply some further
7	Just a bit of history. Before the railway merger in	7	background in this regard, in order to fully understand
8	2007 between KCRC and MTR, the railway projects were	8	this regime. As a matter of fact, there are various
9	implemented under the ownership scheme. Under the	9	parts of the project which concern new works on
10	ownership scheme, the two railway corporations, ie MTR	10	government land. In that case, the BO does not apply to
11	and KCRC, were responsible for the funding, design,	11	those parts which are governed under the IoC, ie the
12	operation and maintenance of railways, et cetera.	12	instrument of compliance, which would be taken care of
13	But in view of the merger in 2007, the government	13	by the Highways Department, not the Buildings
14	was given a discretion to consider whether, in future	14	Department.
15	projects, a concession scheme would be adopted. So that	15	There are other parts which include the Hung Hom
16	is how the concession idea came into place, as a result	16	Station Extension where the present diaphragm walls and
17	of the merger between the two corporations.	17	slabs were constructed, and they are works built on land
18	As I said in paragraph 5 of my written opening,	18	leased to KCRC, or they were built on land given to MTR.
19	under the EAs, ie the entrustment agreements, MTR, as	19	In that case, the construction works are still subject
20	the project manager, was required to carry out or	20	to the Buildings Ordinance, and the building safety and
21	procure the carrying out of the design, construction,	21	also the health standards contained in the Ordinance.
22	testing and commissioning of the SCL.	22	In fact, perhaps I will just try to illustrate that
23	Mr Chairman and Mr Commissioner, you may have read	23	point by referring all of you to paragraph 13 of the
24	or have been referred to three entrustment agreements:	24	witness statement of the Director of Buildings. It's
25	EA1, EA2 and EA3. I can just briefly say that two EAs	25	H7/2111. I believe this paragraph summarises the
	Page 74		Page 76
1	are not relevant for the present purposes. EA1 is only	1	regime. Paragraph 13:
2	for design and site investigation. EA2 is for advanced	2	"The SCL project consists of two parts, namely, the
3	work, and EA3 is for the actual construction and	3	East West Line and the North South Line. The Hung Hom
4	commissioning of the project. Hence, we will be looking	4	Station Extension is the interchange station for EWL and
5	at EA3 only.	5	NSL. Building works of the SCL project may fall under
6	Mr Boulding, in his opening submissions, has	6	the purview of the BA or the Highways Department. Those
7	helpfully set out MTR's obligations and duties under the	7	works to which the BO applies will be regulated by the
8	entrustment agreement. I do not wish to repeat them.	8	BA.
9	There is only point I wish to address. That is the	9	(1) The expansion of Hung Hom Station and the
10	question raised by the Commission regarding clause 35.1.	10	construction of Sung Wong Toi Station of the SCL project
11	If I may just turn to that page.	11	are within the land leased to the KCRC and the
12	It's G7, page 5643. Under the heading of "Design	12	government land given to the MTR respectively. The
13	submissions and construction":	13	construction works at these locations are therefore
14	"Without prejudice to the rights and obligations of	14	subject to the BO and the building safety and health
15	the parties under the instrument of compliance and	15	standards therein. Following the scheme explained in
16	notwithstanding the difference in respect of	16	section B above, the BA issued an instrument
17	applicability of the Buildings Ordinance to the works in	17	an exemption [IoE] to exempt MTR from several
18	relation to a railway project carried out by the	18	requirements under the BO in relation to the leased land
19	corporation under the ownership approach (subject, in	19	portion of the SCL project.
20	any event, to section 54(2) of the Ordinance) and the	20	(2) On the other hand, pursuant to section $41(1)$ of
21	works in relation to a railway project carried out by	21	the BO, building works of the SCL project which are
22	the corporation under the concession approach (as in the	22	located at government land and unleased land are
23	case of the SCL, to which the Buildings Ordinance is not	23	exempted from the control of the BO. For these building
24	applicable), the corporation agrees that it shall carry	24	works, the Director of Highways, in accordance with the
25	out consultation in relation to the railway works"	25	entrustment agreement signed between the government and

	Page 77		Page 79
1	MTR, issued an instrument of compliance requiring MTR to	1	Then the next page, 7659, we have the heading of
2	follow the administrative procedures as stipulated	2	"Review reports" that would need to be compiled by the
3	in the IoC for carrying out building works", et cetera.	3	consultants.
4	So these are the two different regimes governing	4	More importantly, if we go to 6.3, under the heading
5	different parts of the works.	5	of "Monitoring", it sets out more details regarding the
6	From our point of view, it may not be entirely	6	work to be done by the M&V expert.
7	correct to say that the Buildings Ordinance does not	7	And 6.3.4, there's a description regarding checking,
8	apply to the SCL project in general. It really depends	8	and also review and comments on method statements. That
9	on which parts of the project you are talking about. If	9	is 7661.
10	you are talking about the project in relation to the	10	Then, on "Verification", that's 7662, that sets out
11	current diaphragm walls and slabs that we are talking	11	the scope of work regarding verification.
12	about on the Hung Hom Extension, they will be governed	12	Then 6.5 relates to the interim and final reports on
13	by the BO, only with sort of some modifications as	13	monitoring and verification.
14	granted under the IoE. I will further explain that	14	6.6 is also important, because 6.6 at 7664 deals
15	a little bit later.	15	with the professional services to be provided by the M&V
16	COMMISSIONER HANSFORD: Thank you for that clarification.	16	consultant on assessment of building submissions and
17	MR KHAW: I am grateful.	17	compliance with the building safety standards. This is
18	It may not be agreed by the MTR but we shall see	18	the work that the M&V consultant worked closely on with
19	when we are dealing with that point later, at the	19	the Buildings Department's officers.
20	hearing.	20	If I can just take the Commission to 7665,
21	COMMISSIONER HANSFORD: I understand.	21	clause 6.6.4, (f):
22	MR KHAW: According to the entrustment agreement, the	22	"Conduct audit and surprise checks to construction
23	government will be entitled to engage an expert, outside	23	sites on aspects of the structural safety and integrity
24	consultant, to conduct monitoring and verification works	24	of foundation, tunnel, superstructure and et cetera for
25	for the project.	25	safety assurance and for compliance with the building
	Page 78		Page 80
1	Perhaps it's a convenient point to have a look at	1	safety standards, and examine the remedial proposals
2	the M&V agreement that the government entered into with	2	submitted by MTR if contravention is detected".
3	the M&V consultant. It's at G9/7638. This is the front	3	So this bit closely relates to the monitoring and
4	page with a seal, and then if I may invite the	4	control mechanism undertaken by the Buildings
5	Commission to have a look at the brief, starting from	5	Department.
6	7646, and then there's a table of contents.	6	If I can then move back to my written opening,
7	I will just very briefly refer to section 4, first	7	paragraph 6. The SCL project adopts a project
8	of all, under the heading of "Description of the	8	management approach which essentially covers three
9	assignment", where we can see a brief description of the	9	elements: (1) entrustment of the whole project to MTR
10	duties that have been undertaken by the M&V expert or	10	and utilisation of MTR's pre-existing project management
11	consultant under this brief.	11	and control processes; (2) adoption of a "check the
12	I can skip a few pages and then ask the Commission	12	checker" approach, with support from a monitoring and
13	just to put down a marker, at 7658, which deals with the	13	verification consultant; and (3) adoption of a building
14	services to be provided by the consultants. I'm not	14	safety control mechanism. So these are the three
15	going to deal with all the details here. I will just	15	elements that I will further discuss during the course
16	highlight the relevant section.	16	of my submissions.
17	CHAIRMAN: 7658?	17	In respect of the first element, the entrustment
18	MR KHAW: 7658, which is section 6 of this agreement.	18	agreement specified the MTR's pre-existing project
19	CHAIRMAN: Ah, sorry.	19	management and control processes would be used to
20	MR KHAW: Under the heading of "Services to be provided by	20	deliver the SCL project, and allow the government's
21	the consultants".	21	monitoring and representation in key control procedures.
22	CHAIKMAN: Yes.	22	in other words, the MTR is responsible for devising and
23	wirk Kriaw: Regarding the scope of work, I am sure that those	23 24	altill and one recorded to record and a record of a record of a
24	representing the twice v consultant will have quite a lot to	∠4 25	skin and care reasonably expected of a professional and
23	say in uue course.	23	competent project manager as required under the EAs.

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1 Mr Boulding's submissions have also referred to the 1 After the completion of any outstanding works a	and
2 requirement that MTR has to comply with all the 2 rectification, HyD and the M&V consultant will	attend
3 statutory regulations, et cetera. 3 further inspections.	
4 Then the government's role is to monitor and verify 4 At this stage, if I may just very briefly refer th	he
5 that MTRCL fulfils its obligations under the EAs. 5 Commission to some parts of the M&V reports	which show
6 According to the EAs, MTRCL warrants that the entrusted 6 that in fact structural matters, including difficult	ties
7 works shall achieve a professional and reasonable level 7 in relation to installing layers or couplers, were	
8 of skill and supervision, including the assurance of 8 actually picked up in the M&V report.	
9 quality of the works up to the required standards. 9 Just as an example, if I can ask the Commissi	on to
10 In paragraph 8, we refer to the Lloyd's 10 have a look at G10/7880. This is a report prepar	red by
11 recommendation, which has also been referred to by 11 Pypun. You can see from this page that there's	
12 Mr Boulding. According to Lloyd's, MTRCL's project 12 a description of the project and also "Site visited	d" and
13 management processes and controls are known to be robust 13 then the date, 10 September 2013, and there is a	lso
14 and in line with industry best practice. They are 14 a drawing at the bottom of this page.	
15 regularly reviewed and audited by outside bodies and 15 If we can then take a look at 7895. It's just	
16 have been proven and refined through the delivery of 16 an example. One can see that there's a table	
17 many high-quality railway projects, both in Hong Kong 17 CHAIRMAN: Sorry, I missed that. One can see .	?
18 and also abroad. Under the said project management 18 MR KHAW: One can see this table, and there is s	ome
19 system, many railway projects have been successfully 19 description in different columns. If I can just pi	ck
20 delivered by MTR in the past. 20 the last two items, "Uncontrolled ground movem	nent due to
21 That is the reason why the government saw fit, under 21 removal of existing bore pile", and then the next	t one is
22 a concession approach, to place trust and reliance on 22 "Obstruction to track/damage to train".	
23 the MTR for the implementation of the SCL project. 23 et cetera. Then, in relation to the second-last ite	em.
24 In respect of the second element, if the "check the 24 under the heading of "Main cause(s)", the Comr	nission
25 checker" approach, it is a risk-based sampling approach 25 will see that there's a description regarding "Spa	utial
Page 82	Page 84
	-
to verify delivery of the requirements of the project 1 constraint proximity of D-wall alignment with	1
1 to verify delivery of the requirements of the project 1 constraint, proximity of D-wall alignment with 2 scope and authorised expenditure, bearing in mind the 2 underpinning pile cap". Then the last item underpinning pile cap.	ı ler "Main
1 to verify delivery of the requirements of the project 1 constraint, proximity of D-wall alignment with 2 scope and authorised expenditure, bearing in mind the 2 underpinning pile cap". Then the last item und 3 government's resources should be utilised effectively to 3 cause(s)". it says. "Formwork collapse". et cetter	ı ler "Main era.
1 to verify delivery of the requirements of the project 1 constraint, proximity of D-wall alignment with 2 scope and authorised expenditure, bearing in mind the 2 underpinning pile cap". Then the last item und 3 government's resources should be utilised effectively to 3 cause(s)", it says, "Formwork collapse", et cete 4 avoid repetition and micromanagement of the project. 4 If I can take another example, at 7900. If w	n der "Main era. e can
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	Page 85		Page 87
1	control and resolution of contractual claims. It also	1	regarding the building control regime under the BO.
2	provides steers at top management level on key matters	2	Perhaps 14 is important: the building control regime
3	requiring attention. For example, in 2015, several	3	under the BO is a self-regulatory system, which requires
4	incidents of non-conformities in respect of the	4	every person for whom building works are to be carried
5	construction works at the Hung Hom Extension and the	5	out to appoint relevant personnel registered under the
6	remedial works taken by MTR and Leighton were reported	6	BO to perform their duties as required under the BO. It
7	to the Director of Highways and discussed at PSC	7	is the responsibility of the registered building
8	meetings.	8	professionals and registered contractors to ensure that
9	We have various witnesses who will give evidence on	9	the works fully comply with the BO, and also all the
10	the details regarding those non-conformities which were	10	subsidiary legislations, notwithstanding that BD will
11	discovered in 2015.	11	conduct curtailed and audit checks on plan submissions
12	(2) Project coordination meetings, co-chaired by the	12	and audit checks on completed building works and street
13	government engineer/railway development (1) of the RDO	13	works. BD acts as a regulator with powers conferred by
14	and a general manager of the MTR, with the attendance of	14	the BO, and may instigate prosecution against any person
15	other senior staff of MTR, chief engineers and other	15	who commits an offence under the Buildings Ordinance.
16	professional officers of the RDO and the M&V consultant.	16	Paragraph 15 in fact repeats the earlier point that
17	Meetings are convened monthly to discuss and monitor	17	I said about the applicability of the Buildings
18	matters including those relating to progress and	18	Ordinance to the project. As the Hung Hom Extension is
19	programme, construction issues, safety and environmental	19	within leased land, the construction works are in
20	issues, et cetera.	20	general governed by the BO. Having regard to the
21	Then PPM, another level of meetings, chaired by	21	exceptional nature of the building works related to
22	MTR's general manager of SCL and attended by other	22	railway construction, the BA, in accordance with
23	senior staff of MTR, chief engineers and other	23	section 54(2) of the MTR Ordinance, had issued an IoE to
24	professional officers of the RDO and the M&V, et cetera.	24	exempt MTR from various requirements under the BO in
25	They took care of the major civil and electrical and	25	relation to the leased land portion of the project.
	Page 86		Page 88
1	mechanical engineering contracts and other key issues	1	More specifically for the works under the contract the
2	for discussion	2	part concerning modification of existing structures in
3	There is also PCG an internal establishment of MTR	3	Hung Hom Station is fully governed by BO, while the new
1	for taking care of the cost issue	1	works, namely the EWL and also NSL slab and diaphragm
5	Then there are other informal liaison meetings and	5	wolks, namely the LWE and also INSE state and diaphragin wall are covered by the IoF
6	also ad hoc meetings as set out in paragraphs (5) and	6	Perhaps it's important to understand the operation
7	(6)	7	of the IoF If I can just take the Commission to have
8	(0). In respect of the third element, is the building	8	a look at certain provisions of the IoE $H7/2220$ 2220
0	safety control mechanism insofar as the works for	0	is a cover letter issued by the Buildings Department in
10	diaphragm walls and platform slabs at the Hung Hom	10	relation to the IoE Paragraph 2 is relevant:
11	Extension of the SCL project are concerned professional	11	"In recognition of the exceptional nature of the
12	staff members from BD have been seconded to HvD to form	12	said buildings and associated building works and having
13	a BO team to handle matters arising from the instrument	12	regard to the draft 'project management plan' I now
14	of exemption	14	grant exemption from the BO in respect of the said
15	The BO team as we have described here consists of	15	buildings and associated building works details of
16	staff originally working in the Buildings Department	16	which are as listed in the reference schedule to the IoF
17	they were seconded to belp with the project and they	17	attached I would like to remind you to submit the
18	also worked closely with the M&V consultant in relation	18	formal PMP as soon as possible."
19	to huilding opfaty issues	19	Now, it's important to understand the meaning of
	to building safety issues.		
20	The BO team acts under the dedicated authority from	20	exemption under the JoE: what has actually been
20 21	The BO team acts under the dedicated authority from the Building Authority and seeks BD's advice as	20 21	exempted? This actually has been set out onite clearly
20 21 22	The BO team acts under the dedicated authority from the Building Authority and seeks BD's advice as necessary on matters under the BO and handles matters	20 21 22	exemption under the IoE; what has actually been exempted? This actually has been set out quite clearly at 2222.
20 21 22 23	The BO team acts under the dedicated authority from the Building Authority and seeks BD's advice as necessary on matters under the BO and handles matters relating to the IoE including advising on the building	20 21 22 23	exemption under the IoE; what has actually been exempted? This actually has been set out quite clearly at 2222. The first sentence is simply a sentence setting out
20 21 22 23 24	The BO team acts under the dedicated authority from the Building Authority and seeks BD's advice as necessary on matters under the BO and handles matters relating to the IoE including advising on the building safety standards, practices and procedures under the BO.	20 21 22 23 24	exemption under the IoE; what has actually been exempted? This actually has been set out quite clearly at 2222. The first sentence is simply a sentence setting out the power for the grant of this IoE:

	Page 89		Page 91
1	Ordinance those works connected with the design and	1	(1) Appoint a CP, competent person, who shall take
2	construction of Hung Hom Station Compound within the	2	up the responsibilities and duties of AP and RSE to
3	KCRC vested land and leased land and station at	3	coordinate and supervise the works, and to submit plans
4	Sung Wong Toi within the leased land"	4	for consultation with the BD. The appointment of CP
5	Then if I can skip the gazette and also the plans,	5	shall be subject to prior agreement of BD with regard to
6	which are not particularly interesting.	6	qualifications and experience.
7	Then we go to the word "BUT", the capital letters	7	(2) appoint a registered geotechnical engineer for
8	BUT:	8	building works involving significant geotechnical
9	" BUT only in respect of the categories and types	9	content;
10	of structures specified in the reference schedule	10	(3) appoint registered general building contractors
11	attached at the annex and subject to the conditions	11	and registered specialist contractors, as appropriate,
12	thereinafter specified. MOREOVER", and I stress, "the	12	to supervise and carry out each area of the works; and
13	exemption is confined to those procedures and	13	(4) instigate an assurance system and control scheme
14	requirements relating to the appointment of authorised	14	to ensure that management of the construction of the
15	person and registered structural engineer as	15	works are at a standard not inferior to that required
16	appropriate, approval of plans, consent to commencement	16	under the BO and regulations. This assurance system and
17	and resumption of works and occupation of buildings	17	control scheme come in the form of a PMP, which has been
18	provided for in [various sections] of the Buildings	18	introduced by Mr Boulding this morning, submitted by MTR
19	Ordinance, such that my duties and sanctioning powers to	19	setting out the standards and procedures to be followed
20	ensure standards of health and safety are not	20	by MTR for the implementation of the project.
21	undermined."	21	Perhaps I can just complete paragraph 17 as well.
22	What it means is that various administrative	22	The IoE further provides that the Building Authority
23	procedures have been exempted under the IoE, but those	23	would reserve the right to take any action including
24	procedures are required under the BO, but in view of the	24	suspension and preventative or remedial action in the
25	unique nature of this project, the administrative	25	event of any works materially deviating from the agreed
	Page 90		Page 92
1	Page 90 procedures and requirements have been exempted.	1	Page 92 design or working procedures, and the exemption may be
1 2	Page 90 procedures and requirements have been exempted. The Buildings Department still retains the overall	1 2	Page 92 design or working procedures, and the exemption may be withdrawn if any of the conditions contained in the IoE
1 2 3	Page 90 procedures and requirements have been exempted. The Buildings Department still retains the overall power under the BO in relation to building safety. So	1 2 3	Page 92 design or working procedures, and the exemption may be withdrawn if any of the conditions contained in the IoE are not observed or in any circumstances necessitating
1 2 3 4	Page 90 procedures and requirements have been exempted. The Buildings Department still retains the overall power under the BO in relation to building safety. So it's not the case that even the building safety	1 2 3 4	Page 92 design or working procedures, and the exemption may be withdrawn if any of the conditions contained in the IoE are not observed or in any circumstances necessitating such withdrawal.
1 2 3 4 5	Page 90 procedures and requirements have been exempted. The Buildings Department still retains the overall power under the BO in relation to building safety. So it's not the case that even the building safety requirements have been somehow compromised or exempted.	1 2 3 4 5	Page 92 design or working procedures, and the exemption may be withdrawn if any of the conditions contained in the IoE are not observed or in any circumstances necessitating such withdrawal. I wonder whether that would be a convenient moment.
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1	MR PENNICOTT: Mr Gillard.	1	If I can turn to the next page, which sets out all
2	CHAIRMAN: We've anglicised him, unless he is anglicised	2	the requirements imposed. If we can then turn to one of
3	already. I assumed he's French, it would be Gillard.	3	the appendices, it should be at page 3901, appendix 9,
4	We will find out.	4	which deals with the mechanical couplers and steel
5	MR PENNICOTT: We will find out, but it's him.	5	reinforcement bars for ductility requirements.
6	CHAIRMAN: Good. How long do we anticipate he will be	6	Then various conditions are imposed here. We can
7	giving evidence?	7	see that one of the conditions is the qualified site
8	MR PENNICOTT: There is, I know, going to be some	8	supervision of mechanical splice works by an experienced
9	evidence-in-chief, because I have invited Mr Cohen to	9	and competent person; and also, b, the assignment of
10	take the witness to the video, so we will be looking at	10	a quality control supervisor to supervise the works,
11	a video.	11	determine the necessary frequency of inspection. Then
12	CHAIRMAN: Good.	12	the RGBC, the registered general building contractor,
13	MR PENNICOTT: So I have asked, as I say, Mr Cohen to do	13	and the registered specialist contractor, should assign
14	that in-chief, rather than me do it in examination. So	14	a quality control coordinator to provide full-time
15	I imagine that won't take too long but it's going to	15	on-site supervision, et cetera. And then the names and
16	take 15 or 20 minutes, I imagine. Then I will ask some	16	qualifications of the supervisory personnel representing
17	questions, and I anticipate probably being maybe an hour	17	the competent person and also the contractors.
18	to an hour and a half with Mr Gillard, perhaps slightly	18	If we can then turn to 3903, one of the conditions
19	shorter; I don't know. To be fair, I haven't asked any	19	is:
20	of my learned friends whether anybody else wishes to ask	20	"A submission of a quality supervision plan of the
21	Mr Gillard any questions.	21	competent person", ie competent person of MTR, and also
22	CHAIRMAN: Mr Gillard may well then, in all probability, be	22	the contractors, "is required to be submitted to this
23	held over until tomorrow as well.	23	department prior to the commencement of the mechanical
24	MR PENNICOTT: It's possible. It depends on how my learned	24	couplers work. The quality supervision plan should
25	friends want to play it and whether they've got any	25	include the following details:
	Page 94		Page 96
1	questions for him.	1	Assignments of quality control supervisor of the
2	CHAIRMAN: Good. We will see how we go. Thank you very	2	competent person and the quality control coordinator of
3	much. 2.15.	3	the [contractors] to supervise the manufacturing process
4	(1.00 pm)	4	of the connecting ends of the steel reinforcing bars,
5	(The luncheon adjournment)	5	and the installation of steel reinforcing bars to the
6	(2.18 pm)	6	couplers.
7	CHAIRMAN: Yes.	7	Frequency of quality supervision, which should be at
8	MR KHAW: If I may start from paragraph 19 of my written	8	least 20 per cent of the splicing assemblies by the
9	opening, where we deal with the design stage drawings,	9	quality control supervisor of the competent person and
10	et cetera, and then, basically, it's about the	10	full-time continuous supervision by the quality control
11	submission of plans by the CP to the government for the	11	coordinator of the RGBC/RSC
12	purpose of fulfilling the conditions under the IoE.	12	For couplers to be used at the top of pile cap and
13	Then paragraph 20 actually deals with the acceptance	13	transfer plate, the frequency", et cetera.
14	of plans submitted for consultation and also the BO	14	In response to such conditions, MTR then submitted
15	team's acceptance letter, et cetera.	15	the QSP, ie the quality supervision plan, which can be
16	What I want to highlight here is only perhaps two	16	found at H9/4269. The letter starts at 4262, a letter
17	matters. One is the acceptance letter, set out in	17	from MTR to the government, where it says "Quality
18	paragraph 20, and the other is the QSP.	18	supervision plan submission" has been put forward.
19	Perhaps we can take a look at the acceptance letter	19	If we go to the contents, 4265, Mr Chairman and
20	first. The acceptance letter is at H9/3873.	20	Professor can see the front page of this quality
21	This acceptance letter is dated 25 February 2013	21	supervision plan on enhanced site supervision and
	This acceptance letter is dated 25 rebruary 2015.		supervision plan on enhanced site supervision and
22	We can see from the table below, it says "Substructure	22	independent audit checking, regarding installation of
22 23	We can see from the table below, it says "Substructure below EWL platform level", and also we've got	22 23	independent audit checking, regarding installation of couplers.
22 23 24	We can see from the table below, it says "Substructure below EWL platform level", and also we've got "Foundation (load bearing diaphragm wall, barrette pile	22 23 24	independent audit checking, regarding installation of couplers. The relevant provisions are set out at 4269. You

	Page 97		Page 99
1	supervision plan on enhanced site supervision and	1	considered to be completed satisfactorily, then no
2	independent audit checking for installation of	2	objection letters will be issued by the Buildings
3	couplers".	3	Department.
4	Paragraph 5, "Supervision on site works":	4	Then finally I come to the regime on regulating
5	"Beside the site supervision system as stipulated in	5	action by DevB
6	the Code of Practice for Site Supervision, the	6	MR PENNICOTT: Before my learned friend gets to that, I just
7	followings additional inspection will be carried out."	7	wonder if it might be helpful if the government could
8	First of all, by RC, so Leighton in this case:	8	indicate, not necessarily now while my learned friend is
9	"Quality control supervisors will be responsible to	9	on his feet, but perhaps at some convenient moment,
10	carry out full-time and continuous supervision of the	10	relatively soon, whether the government accepts that at
11	splicing assemblies on site.	11	least the paperwork was in order, in terms of what was
12	Supervision and inspection will be recorded in the	12	submitted by MTRC, Leighton, Intrafor, and so forth, to
13	record sheet and write into the inspection logbook	13	the government.
14	Checking includes length of thread and correct	14	Compliance, of course, is a completely different
15	connection of 2 bars with couplers."	15	question which is obviously a matter of contention and
16	Then subparagraph 2 deals with "Supervision and	16	we will need to look into, but in terms of the
17	inspection by MTR installation works":	17	documentation, and obviously Mr Khaw has been very
18	"Frequency of quality supervision should be not less	18	usefully taking us to some of this material, but it
19	than 20 per cent of the splicing assemblies by MTR	19	would be helpful certainly for me to know, in terms of
20	Quality control supervisors will record the	20	questioning certain of the witnesses, whether the
21	inspection by countersigning the inspection record	21	government accepts and is not taking any point that the
22	sheet"	22	paperwork was in fact in order.
23	Then 6 refers to the inspection logbook that was	23	MR KHAW: I will deal with that when it comes to this
24	required to record the details regarding supervision and	24	question regarding the change in design, because we
25	inspection.	25	would like to make our position clear, and that is, in
	Page 98		Page 100
			•
1	So these are the relevant bits in relation to	1	response to the Commission's question yesterday,
1 2	So these are the relevant bits in relation to installation of couplers, and these are also the	1 2	response to the Commission's question yesterday, Mr Shieh actually dealt with the point regarding whether
1 2 3	So these are the relevant bits in relation to installation of couplers, and these are also the requirements agreed by MTR and they have been submitted	1 2 3	response to the Commission's question yesterday, Mr Shieh actually dealt with the point regarding whether acceptance was given by the BD in relation to the change
1 2 3 4	So these are the relevant bits in relation to installation of couplers, and these are also the requirements agreed by MTR and they have been submitted to the government.	1 2 3 4	response to the Commission's question yesterday, Mr Shieh actually dealt with the point regarding whether acceptance was given by the BD in relation to the change in design.
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	Page 101		Page 103
1	that interacts with the Buildings Ordinance, and so	1	public works contractors from which contractors are
2	forth, whether they accept that the paperwork was in	2	invited for tendering such contracts. Two lists
3	order.	3	being one is the general contractors list and the
4	CHAIRMAN: You're talking about the paperwork generally	4	other one is the specialist contractors list. To be
5	MR PENNICOTT: Generally, yes.	5	included in the approved lists, contractors are required
6	CHAIRMAN: and not merely paperwork restricted to	6	to meet the financial, technical and management criteria
7	a particular instance such as the change of plan?	7	for admission and retention on the lists.
8	MR PENNICOTT: No, generally. Were all the statutory	8	Since the SCL project has been entrusted to MTRCL,
9	provisions, supervision plans in order, and so forth.	9	the framework and procedures for public works contracts
10	CHAIRMAN: So on a general basis what would be the	10	are not applicable to the same. However, DevB's right
11	government's position as to the question of paperwork?	11	to take regulating actions against contractors is not
12	MR KHAW: On a general basis?	12	limited to public works contracts because of one of the
13	CHAIRMAN: Yes.	13	provisions in the handbook which sets out that the
14	MR KHAW: Yes, Mr Chairman. On a general basis, I don't	14	circumstances which may lead to the taking of regulating
15	think the government is taking any issue in relation to	15	actions includes "serious or suspected serious poor
16	any particular paperwork which is not satisfactory.	16	performance or other serious causes in any public or
17	That is our stance. I don't think we have actually put	17	private sector works contract".
18	in any evidence which disputes the sufficiency of any	18	Accordingly, DevB may take regulating action in
19	paperwork, save and except the point in relation to the	19	respect of contract 1112 if there is serious or
20	change in design which I'm going to deal with later.	20	suspected serious poor performance. Amongst the
21	CHAIRMAN: Yes, of course.	21	contractors involved in the contract, Leighton is on
22	COMMISSIONER HANSFORD: Can I just ask, presumably, if the	22	DevB's list of approved contractors, whereas Intrafor is
23	government did have an issue with the paperwork, it	23	on the list of approved suppliers of materials and
24	would have made that clear at the appropriate stage	24	specialist contractors for public works. On 8 October
25	during the contract?	25	this year, DevB has taken regulating action against
	Page 102		Page 104
1	MR KHAW: Yes, certainly.	1	Leighton in accordance with paragraphs 5.1.2 to 5.1.4 of
2	COMMISSIONER HANSFORD: Thank you.	2	the handbook. As for Intrafor, DevB is still examining
3	MR KHAW: Of course one aspect of the paperwork that in fact	3	whether regulating action should be taken or not.
4	has been raised by the MTR, in fact has been identified	4	At this juncture, if I may just deal with the point
5	by the MTR as an issue, and that is the retrospective	5	regarding whether the Buildings Department has accepted
6	records. Obviously our stance is that, in relation to	6	the change in design which was discussed yesterday,
7	the retrospective records, we say that that is not in	7	during Mr Shieh's submissions. The Commission may
8	accordance with the PMP requirement, but that has been	8	recall that in this respect, there are two issues raised
9	omitted by the MTR	9	by MTR and Leighton. One by Leighton is that submission
10	CHAIRMAN: Yes. I think we accept that on a quite clear and	10	was made to the BD, and BD accepted it, and that was the
11	plain, common-sense basis, that falls outside of any	11	stance taken by Leighton. Another point taken probably
12	concession you have just made.	12	by both Leighton and MTR is that the change only
13	MR KHAW: Right.	13	involved minor change in construction details, which in
14	chairs the server of the serverest. If there had been	14	fact did not require acceptance by the BD.
15	during the course of the contract. If there had been	15	So these are the two issues which would need to be
10	time, and looking at it holistically now, there is no	10	examined.
17	problem with the penerwork generally other than in	1/	ni relation to the first issue, le the alloged submission
10	respect of certain limited issues which will come up	10	made by MTP It's P12/8888 Parkage it is important to
20	before the Commission	19 20	note that on this question MTP's position is that
21	MR KHAW Yes	20	Leighton or Atkins failed to provide the necessary
2.2	CHAIRMAN: Thank you	22	submission to the Buildings Department for accentance
23	MR KHAW: Regarding the regime by DevB. I will be rather	23	This is the alleged submission for the change in
24	brief on this. It's just that there is a regime where	24	design, put forward by MTR to the Buildings Department

	Page 105		Page 107
1	report for Hung Hom Station excavation and lateral	1	slabs for temporary load cases: area C"
2	support for area C1 and C2 excavation below minus	2	If we then go to the contents of the report, 8993,
3	0.5mPD (amendment submission)".	3	there is an executive summary which sets out the primary
4	Our position is that this submission related to the	4	changes in relation to area C. The Commission will see,
5	submission for temporary excavation works. One can see	5	at point 6, there's a reference to:
6	from 8891 that there's a certificate of preparation of	6	"Incorporates the justification of reinforced
7	plans or documents.	7	concrete design for the as-built reinforcement detail at
8	If the Commission can look at the submission title,	8	the interface between the diaphragm wall and the EWL
9	it says, "Strutting for area C". It's areas C1 and C2	9	slab because of the missing U-bar in diaphragm
10	at grid 22 to 40. This is signed by a competent person.	10	wall."
11	Then there's another certificate on the next page,	11	But then if we go to the bottom of this page, it
12	signed by the registered geotechnical engineer, with the	12	says:
13	same submission title, "Strutting for area C (area C1	13	"The scope of the report is limited to the temporary
14	and C2)", at the same part of the grid.	14	load cases only for the change of point 1 to point 7."
15	Then if one looks at the design calculations, at	15	So this sets out the scope of this report.
16	page 8894. Again, when we look at the subject matter,	16	If we can then go to 9028, which is a part regarding
17	it says, "Strutting for area C (area C1 and C2)".	17	structural design criteria, after 5.4.4, "Construction
18	As I understand, strutting is for the temporary lateral	18	loads", there's a note:
19	support for the excavation works.	19	"This submission is restricted to temporary load
20	If we go into the details of the report, 8895,	20	cases only. Long-term load cases are striked through
21	"Design calculation", again it is all about "Strutting	21	below."
22	design for area C".	22	Then we see 5.4.5, "Earthquake loads". This part
23	So the whole submission, together with these	23	has been deleted.
24	supporting documents, related to the submission in	24	Then we also have 5.4.6, "Train and track form
25	relation to the temporary excavation works, not in	25	loads", which is also deleted.
	Page 106		Page 108
1	relation to any change in design regarding the	1	Our case is that, if the submission is for permanent
2	connection between platform slabs and the diaphragm	2	change in design, then obviously these details would
3	walls.	3	need to be considered, because it will have a material
4	I will go into further details where it actually	4	bearing on the loading regarding the diaphragm walls and
5	mentioned permanent design.	5	the slab, but these are deleted because it is only for
6	CHAIRMAN: Sorry, just so that I understand.	6	the temporary load cases.
7	MR KHAW: Yes.	7	Then if we go to 9031, there's another note which
8	CHAIRMAN: Whatever the title and I'm not denigrating the	8	says:
9	importance of descriptive titles, but whatever the	9	"This submission is restricted to temporary load
10	title in the body of this documentation, is there	10	cases only. Long-term load cases are striked through
11	reference made in fact to trimming down the diaphragm	11	below."
12	walls and putting in these straight bars and getting rid	12	CHAIRMAN: Sorry, if we are talking about trimming down the
13	of the couplers?	13	D-walls in certain areas, which means getting rid of the
14	MR KHAW: There is reference, but what I'm going to	14	concrete, getting rid of whatever bars are in there, and
15	demonstrate to the Commission is that when we look at	15	putting in new bars across, which will enable a slab to
16	the letter, it sets out the purpose of this particular	16	be joined, and then putting in a monolithic concreting,
17	submission, and that's for temporary excavation works.	17	how is that temporary? That's not meant to be
18	Then we have all the details regarding calculation and	18	facetious; it's a genuine question.
19	also design in relation to strutting, which was also for	19	MR KHAW: In fact the trimming of the top of the diaphragm
20	that particular purpose.	20	wall, that actually appeared at 9034.
21	Now, the reference regarding the permanent	21	CHAIRMAN: That I can understand. On its own, I can see why
22	structure, ie the slab and also diaphragm wall, can be	22	that may be temporary. But are you saying that these
23	found there is a design report which starts at 8985,	23	applications it's just so that I understand it
24	the front page of the design report which says, "Design	24	these papers relate only to that, or do they include
25	report for Hung Hom Station primary structure: primary	25	a requirement to put in rebars that will lock in a slab

	Page 109		Page 111
1	to the D-wall?	1	amounted to submission regarding the change in design or
2	MR KHAW: If we look at 9034, when it sets out the	2	not.
3	construction sequence, one of the points summarised	3	CHAIRMAN: Absolutely, and I appreciate that, but that's the
4	there is the trimming of the top of the diaphragm wall.	4	more refined point.
5	It's just below	5	MR KHAW: Yes.
6	CHAIRMAN: I see that. It will be trimmed, ves.	6	CHAIRMAN: I'm looking at the more general point which
7	MR KHAW: And also:	7	perhaps was aired in the press the other day, with the
8	"The top rebar at the D-wall panel will then fix	8	suggestion that the MTR in respect of this had deceived
9	to the top rebar of OTE slab to achieve full tension	9	the government.
10	laps."	10	MR BOULDING: Sir. I would just point out that my learned
11	Also	11	friend misquoted the second paragraph in highlighted
12	CHAIRMAN: Then it says that the EWL slab	12	colour. It does read. I emphasise:
13	MR KHAW: " at the D-wall panel will then fix to the top	13	"The top rebar of EWL slab at the D-wall panel will
14	rebar of OTE slab"	14	then fix to the top rebar of OTE slab to achieve full
15	And then:	15	tension laps."
16	"The EWL slab and OTE slab will be casted	16	That might be thought to have some importance.
17	concurrently with temporary openings around the existing	17	CHAIRMAN: Yes.
18	columns and nile caps "	18	MR KHAW: I stand to be corrected.
19	These are the submissions regarding the sequence of	19	CHAIRMAN: Thank you very much. It just to help me at this
20	construction which would occur for the purpose of	20	stage. Thank you
21	accommodating the temporary excavation works. That is	21	MR KHAW: So, from the document, we can certainly see the
22	why the construction sequence is set out here. But it	22	reference to the trimming of the top of the diaphragm
23	does not represent a submission for the change of	23	wall and also the other construction details regarding
24	a permanent design regarding slabs and the diaphragm	24	the construction of the diaphragm walls and also the
25	walls.	25	platform slabs. There is reference here. But, as I set
			•
	Page 110		Раде 112
1	Page 110	1	Page 112
1	Page 110 MR WILKEN: Sir, as far as Leighton is concerned, our	1	Page 112 out earlier, the question is really whether the
1 2 2	Page 110 MR WILKEN: Sir, as far as Leighton is concerned, our position is that we don't agree with this analysis and	1 2 2	Page 112 out earlier, the question is really whether the submission amounted to a submission for the change in
1 2 3	Page 110 MR WILKEN: Sir, as far as Leighton is concerned, our position is that we don't agree with this analysis and we will make submissions on it in due course, just for	1 2 3	Page 112 out earlier, the question is really whether the submission amounted to a submission for the change in design.
1 2 3 4	Page 110 MR WILKEN: Sir, as far as Leighton is concerned, our position is that we don't agree with this analysis and we will make submissions on it in due course, just for the record.	1 2 3 4	Page 112 out earlier, the question is really whether the submission amounted to a submission for the change in design. If we then go to a further page which has been
1 2 3 4 5	Page 110 MR WILKEN: Sir, as far as Leighton is concerned, our position is that we don't agree with this analysis and we will make submissions on it in due course, just for the record. CHAIRMAN: No, certainly.	1 2 3 4 5	Page 112 out earlier, the question is really whether the submission amounted to a submission for the change in design. If we then go to a further page which has been included in the whole package, B13/10292. There's
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2 MR KHAW: Mr Commissioner and Prolessor can see there are 2 that this submission is for area C3. The previous one was for areas C1 and C2; this one is for C3. 3 from banched lines, and them, under "Panel width", there area for areas C1 and C2; this one is for C3. In response to this particular submission, the 5 con still see the rectangular-shaped boxes, which 5 generating and the anomality of the submission of the submission and be found at H1/435374. In found at H1/43574. 7 So if one is asying that time. We already 7 In response to this particular subport was 33344, a similar 8 submitted the change in design", which actually led to the submission in the Buildings Department suppose to the particular support works, and 7 10 which drawing was the Buildings Department suppose to the particular support works, and 13 11 refer to here? 10 If we go to appendix 1 again ~. 12 CHAIRMAN: Again ~. 13 MR PENNCOTT: That's the one we just looked at. 13 wast my question to become too sophisticated in its 13 MR FENNCOTT: That's better. 14 answer, my question to accompt. 14 MR KHAW: No: That's better. 16 16 field. The issue is wat wave the nature of the correspondence? 17 posis that wave the nature of the	1	CHAIRMAN: Yes.	1	to the excavation works, but here the Commission can see
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25 C26/1996. It's a similar submission, again in relation 25 would not require approval. The relevant practice note	22	diaphragm walls. CHAIRMAN: Yes	22 23	Just to complete the picture in this regard, Leighton has referred to one practice note issued by the
	22 23 24	diaphragm walls. CHAIRMAN: Yes. MR KHAW: There was a second submission and that appears at	22 23 24	Just to complete the picture in this regard, Leighton has referred to one practice note issued by the Buildings Department to say that certain minor changes

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1	appears at C13/8555. This deals with "Building approval	1	That is something that we will dispute.
2	process". As I said earlier, under the IoE, certain	2	COMMISSIONER HANSFORD: Yes. I am with you.
3	administrative processes and requirements have been	3	MR KHAW: Just to complete the point or my answer to the
4	exempted. But if we go into the practice note,	4	professor earlier regarding the practice note, if I may
5	paragraph 9 perhaps I can start from paragraph 6:	5	just ask the Secretariat to turn up H20/40065. This is
6	"For submissions of general building plans,	6	the relevant practice note, and if we go to the internal
7	superstructure plans and drainage plans, a curtailed	7	page 3, "Minor amendments", clause 20:
8	check system has been adopted to check on fundamental	8	"Subject to a modification of Building
9	issues only.	9	(Administration) Regulation being granted by the BA
10	In respect of GBP, the BD will check issues	10	under the BO, prior approval and consent to the
11	concerning density, safety	11	minor amendments of building, superstructure (including
12	For superstructure plans, the BD will check the	12	curtain wall) and drainage works, for which first
13	master framing plans, notes, design loads, design	13	consent has already been given, would not be required
14	methods	14	except for the following amendments".
15	For drainage plans, the BD will check the disposal	15	So this is the bit that I mentioned in relation to
16	system, underground	16	whether consent to minor amendments would be required.
17	As regards other types of plans, such as demolition,	17	But if we go back to internal page 2, clause 9 deals
18	site formation, foundation the items to be checked	18	with the general building plans. "Buildings Department
19	are provided in appendix D."	19	will check the fundamental issues", et cetera. "The
20	COMMISSIONER HANSFORD: Sorry, Mr Khaw, it is unclear to me	20	items to be checked are [contained] in appendix A."
21	as to whether diaphragm wall is considered to be	21	Then "superstructural plans, including those of
22	superstructure works or what category it comes under.	22	curtain wall", et cetera, that we have just seen, "BD
23	MR KHAW: We say it belongs to foundation works.	23	will check the master framing". Then 11:
24	COMMISSIONER HANSFORD: Foundation works.	24	"For drainage plans, the BD will check the disposal
25	MR KHAW: In fact there's a reference in the practice note	25	system, underground drain layout"
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1	saying that if it relates to superstructure works, then	1	As regards other types of plans (eg demolition, site
2	certain minor changes to superstructure work would not	2	formation, structural works other than superstructure),
3	require approval or further acceptance from the BD.	3	processing will continue to be generally on a curtailed
4	But we say the foundation work actually does not	4	basis."
5	fall within that particular revision. Hence, if one	5	When clause 20 deals with minor amendments to
6	relies on that practice note to say that minor changes	6	general building plan, superstructure and also drainage,
7	to superstructure works would not require acceptance	7	such changes will not cover changes in relation to
8	from the BD, that is wrong because we are talking about	8	foundation work which in fact, according to
9	foundation works in relation to the diaphragm walls and	9	paragraph 12, has been excluded.
10	also the slabs.	10	That probably takes me to the final bit of my
11	COMMISSIONER HANSFORD: Thank you.	11	written opening.
12	MR KHAW: I initially wanted to also deal with the issue	12	In the area of building and construction, public
13	regarding retrospective records, but since I have heard	13	safety and quality of works are always the government's
14	what Mr Boulding has said in that particular regard,	14	top priorities. The government will have no hesitation
15	I probably would not need to trouble the Commission on	15	in working with MTR to arrange for the most suitable and
16	that, save and accept that Mr Boulding, in his	16	reliable tests to be conducted for the purpose of
17	submission, actually mentioned that during the site	17	addressing public concerns over structural integrity and
18	visits in June this year, their staff actually	18	durability of the works under the SCL project, upon
19	emphasised that the records were retrospective. In	19	considering all expert opinions and professional advice.
20	fact, we have evidence from the staff from the BD and	20	We also acknowledge that government departments
21	also the Highways Department which would probably	21	of course play a very important role in public safety
22	dispute that point. But that is a relatively minor	22	and quality of works, regarding the SCL. So does MTR,
23	point in relation to what was said or exchanged during	23	which receives project management fees of around
24	the site visits, whether this retrospective nature was	24	HK\$8 billion from the government for managing and
25	highlighted or emphasised during those site visits.	25	implementing this project. And the government obviously

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1	has every reason to envisage that such fees paid would	1	Mr Pennicott, it seems to me that you should hear
2	enable MTR to employ the necessary manpower to manage	2	directly from me. As you know, we have come to be
3	the SCL project with the required skills.	3	involved in this Inquiry at a very late stage, very
4	Finally, we wish to highlight and also emphasise	4	recently. As a result, there will be no oral opening
5	that the government will do its utmost in this Inquiry	5	submissions from me today and no opening statement, save
6	in order to allow the Commission and also the public to	6	of course to say that we will do everything we can to
7	conduct an assessment of its monitoring and control	7	assist the Commission in its task.
8	mechanism. But we hope that in assessing our system.	8	CHAIRMAN: Thank you very much.
9	one should not be too quick in applying wisdom after the	9	MR CONNOR: Thank you. Mr Chairman and Mr Commissioner.
10	event, even though it may always be tempting to do so.	10	Atkins of course, as you know, is in a similar position
11	Obviously, in devising the system and also formulating	11	to that of Pypun. As has been fairly described by
12	its details, it was necessary to consider numerous	12	Mr Pennicott vesterday, Atkins' role in relation to this
13	factors, including of course time and cost, risk	13	project arises in two ways, one under contract to MTR
14	assessment, which differentiates high-risk from low-risk	14	Corporation, one under contract to Leighton Asia. What
15	factors anticipation of human errors et cetera. These	15	we have heard so far indicates that, as you would
16	factors will determine whether a particular area would	16	expect, there is quite a body of material that needs to
17	need to be closely examined or whether a slightly less	17	be considered by Atkins in the course of the preparation
18	proactive approach could be followed for another aspect	18	of its evidence. That exercise is underway, thanks to
19	In the present case, naturally, one of the key	19	the good cooperation of Mr Pennicott and his team
20	factors in the overall exercise was that MTR had a good	20	already, but as you would expect it will take some time
20	track record. Its project management processes and	21	to continue
21	controls were known to be robust and in line with	21	A date has been set for the submission of evidence
22	industry best practice	22	on behalf of Atkins of 13 November, and we are working
23	So in fact it is not a case where we chose to only	23	hard to achieve that In the meantime, the only caveat
24 25	raly on MTP's experience and expertise. As I have	25	to the participation in the proceedings which will
23	Tery on MTR's experience and expertise. As I have	25	to the participation in the proceedings which will
	Page 122		Page 124
1	outlined above, we do have our own monitoring and		
	outified above, we do have our own monitoring and	1	proceed from now on is really the extent to which, with
2	control mechanism, with the assistance of experts	1 2	proceed from now on is really the extent to which, with those preparations continuing, Atkins is in a position
2 3	control mechanism, with the assistance of experts engaged by the government.	1 2 3	proceed from now on is really the extent to which, with those preparations continuing, Atkins is in a position to make application for leave to question or examine any
2 3 4	control mechanism, with the assistance of experts engaged by the government. Mr Chairman and Professor, we say all this not	1 2 3 4	proceed from now on is really the extent to which, with those preparations continuing, Atkins is in a position to make application for leave to question or examine any of the witnesses who come.
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	Page 125		Page 127
1	this stage.	1	information provided by the slides. That is just for
2	CHAIRMAN: With the first witness coming in, we just want to	2	clarification purposes
3	see the administrative matters are working well.	3	Also, we understand from MTR's own information.
4	MR PENNICOTT: Yes. Can I just raise one point that has	4	there are in fact 11 different types of connections
5	been raised with me. For reasons I can't quite fathom.	5	regarding the installation of reinforcement bars in
6	apparently the media are quite interested in	6	relation to different areas. So we just want to make
7	Mr Boulding's slides. It seems to me that there's	7	sure that people who get hold of the slides would know
8	absolutely no problem in releasing that material. I've	8	that the slides are for illustration purposes only and
9	had a quick look at the Rules of Procedure. There's	9	they do not actually represent the actual connection
10	nothing that really covers it. This is not information	10	details. That is the only marker that I wish to put
11	that's been given to the Commission that has then been	11	down.
12	given to involved parties. This is something that has	12	CHAIRMAN: Thank you very much.
13	been introduced by MTRC during the course of their	13	MR BOULDING: Sir, I accept those reservations. I only say
14	opening and if they wish to disseminate it, I can't see	14	that I did endeavour to make it clear, when I introduced
15	why they shouldn't. But I thought, as a matter of	15	the slides, that Mr Pennicott, the previous day, had
16	precaution, I would just mention it to you.	16	been right to point out that the change was not uniform
17	CHAIRMAN: I agree. It's a matter obviously for Mr Boulding	17	and indeed I identified the panels on the EWL where that
18	and those who work with him.	18	illustration on the slides did not apply. As I've said,
19	MR BOULDING: Thank you, sir. As Mr Pennicott said, for	19	there are further details in Mr Louis Kwan's witness
20	some unknown reason at the moment, the media is	20	statement.
21	interested in the slide show, for which I'm eternally	21	CHAIRMAN: Thank you.
22	grateful to Mr Jason Leung who prepared it. If you are	22	MR PENNICOTT: Sir, I think we come to the first witness.
23	prepared to allow that to be disseminated to the media,	23	CHAIRMAN: Yes.
24	I suspect	24	MR PENNICOTT: On that basis, I hand over to Mr Cohen.
25	CHAIRMAN: Certainly. Well, it's been put up outside for	25	MR COHEN: Good afternoon, sirs.
	Page 126		Page 128
1	everybody to see. All they had to do was pick up their	1	Mr Gillard, can you give the Commission your full
2	iPhone and go click, click, click and they would have	2	name, please?
3	had it in any event.	3	WITNESS: Good afternoon, everybody. I am Jean-Christophe
4	MR BOULDING: Mr Jat Sew Tong has just pointed out to me	4	Jacques-Olivier Gillard.
5	that there is a notice up there saying that you can't	5	MR COHEN: Can I ask you you've got quite a gentle
6	take photographs. That's one of the problems.	6	voice to speak up so that everybody can hear you very
7	CHAIRMAN: Okay. I wish I could say that sotto voce but of	7	clearly.
8	course I haven't; it's gone through the entire building.	8	WITNESS: Thank you.
9	Thank you for correcting me.	9	MR JEAN-CHRISTOPHE JACQUES-OLIVIER GILLARD (affirmed
10	Five minutes.	10	Examination-in-chief by MR COHEN
11	(3.27 pm)	11	MR COHEN: Mr Gillard, you have given I think three witness
12	(A short adjournment)	12	statements to this Commission; is that correct?
13	(3.37 pm)	13	A. This is correct.
14	MR KHAW: Mr Chairman and Professor, I am certainly not	14	Q. If we could please turn to bundle F1, page 32. That
15	seeking to do a second opening. I just would like to	15	should hopefully be the first page of your first witness
16	put down a marker here, since we just discussed the use	16	statement.
17	of the slides before the break, we only wish to clarify	17	A. This is correct.
18			O If we are placed to E1 mans 102 that should have fully
	that, first of all, I understand Mr Boulding has very	18	Q. If we go, please, to F1, page 102, that should hopefully
19	that, first of all, I understand Mr Boulding has very fairly put that the slides have been simplified for	18 19	be the last and signed page of your witness statement;
19 20	that, first of all, I understand Mr Boulding has very fairly put that the slides have been simplified for illustration purposes only.	18 19 20	be the last and signed page of your witness statement; is that correct?
19 20 21	that, first of all, I understand Mr Boulding has very fairly put that the slides have been simplified for illustration purposes only. CHAIRMAN: Yes.	18 19 20 21	be the last and signed page of your witness statement;is that correct?A. This is correct.
19 20 21 22	that, first of all, I understand Mr Boulding has very fairly put that the slides have been simplified for illustration purposes only.CHAIRMAN: Yes.MR KHAW: And from the government's point of view, since we	 18 19 20 21 22 	Q. If we go, please, to F1, page 102, that should nopelully be the last and signed page of your witness statement; is that correct?A. This is correct.Q. If we then go to F19761 the pagination I've got is
 19 20 21 22 23 	that, first of all, I understand Mr Boulding has very fairly put that the slides have been simplified for illustration purposes only.CHAIRMAN: Yes.MR KHAW: And from the government's point of view, since we still have not yet received the so-called as-built	 18 19 20 21 22 23 	 Q. If we go, please, to F1, page 102, that should noperuly be the last and signed page of your witness statement; is that correct? A. This is correct. Q. If we then go to F19761 the pagination I've got is 19761. That should hopefully be the start of your
 19 20 21 22 23 24 	that, first of all, I understand Mr Boulding has very fairly put that the slides have been simplified for illustration purposes only.CHAIRMAN: Yes.MR KHAW: And from the government's point of view, since we still have not yet received the so-called as-built drawings, so we are not able to comment on or accept the	 18 19 20 21 22 23 24 	 Q. If we go, please, to F1, page 102, that should nopertury be the last and signed page of your witness statement; is that correct? A. This is correct. Q. If we then go to F19761 the pagination I've got is 19761. That should hopefully be the start of your second witness statement. Yes.

	Page 129		Page 131
1	Q. Then if we go further on to 19772, that should be the	1	But if we can pass those over to the witness. They are
2	final and signed page of your second witness statement.	2	quite heavy. (Handed).
3	A. This is correct.	3	Can you please explain to the Commission what it is
4	Q. Then if we go to F24260, that should be the start of	4	you have in front of you as exhibit 1?
5	your third witness statement.	5	A. This is a type A coupler. So this is basically
6	A. Yes, that's correct.	6	Q. Mr Gillard, you are going to need to speak up very
7	Q. And page 24272.	7	clearly.
8	A. Yes.	8	A. Yes, sure. This is a type A coupler, so this is
9	Q. That is the last and signed page of your third witness	9	basically the coupler which was generally used as
10	statement; is that correct?	10	a starter bar, so the coupler linking the D-wall to the
11	A. This is correct.	11	future slabs. So these are this type of coupler, which
12	Q. I understand that there are some corrections and	12	are actually different from the coupler we use
13	clarifications you wish to make to each of those	13	connecting the cages of the D-wall, yes.
14	statements.	14	Q. Can you unscrew, please, the two parts.
15	A. Yes.	15	COMMISSIONER HANSFORD: Sorry, would it be possible for
16	Q. Sir, have you got the corrections? (Handed).	16	Mr Gillard to stand while he does this so I can see
17	Mr Gillard, you should have three documents in front	17	a bit clearer?
18	of you. The first is headed, "Corrigendum to the	18	MR COHEN: Yes, of course.
19	witness statement of [yourself]", the first statement;	19	COMMISSIONER HANSFORD: Thank you.
20	do you see that?	20	MR COHEN: Firstly, Mr Gillard, can you show the Commission
21	A. Yes, I see that.	21	what it is that Intrafor was required to install into
22	Q. That has a number of corrections and clarifications you	22	the diaphragm wall when it comes to type A couplers?
23	wish to make?	23	A. For the type A couplers, I have explained how the
24	A. Yes.	24	couplers linking the D-wall to the future slabs, so they
25	Q. Can you confirm you wish to adopt each of the	25	are generally L-shaped bars, and this is one of those
	Page 130		Page 132
1	clarifications or corrections on that page?	1	couplers which is actually on the edge of the wall, for
2	A. I confirm that I adopt each and every correction on this	2	the connection of the starter bar for the slabs. So
3	page.	3	they are inserts for future works.
4	Q. There is then a second one-page document, which is also	4	O. And the other part you have, can you explain what that
5	signed, headed "2nd statement". Can you look at that	5	is?
6	and confirm that you wish to make those clarifications	6	A. Okay. So this is in a type A coupler, because we are
7	and corrections?	7	
8		/	talking about type A coupler. This is a secondary bar,
9	A. Yes, I wish to adopt those clarifications and	8	talking about type A coupler. This is a secondary bar, so this is a bar which is going to become later on to be
	A. Yes, I wish to adopt those clarifications and amendments.	7 8 9	talking about type A coupler. This is a secondary bar, so this is a bar which is going to become later on to be connected to the coupler which is cast into the D-wall.
10	A. Yes, I wish to adopt those clarifications and amendments.Q. Finally, there is a two-page document, headed "3rd	7 8 9 10	talking about type A coupler. This is a secondary bar, so this is a bar which is going to become later on to be connected to the coupler which is cast into the D-wall.Q. So the bar for that hand, is that work that Intrafor
10 11	A. Yes, I wish to adopt those clarifications and amendments.Q. Finally, there is a two-page document, headed "3rd statement". Can you confirm the same thing in relation	7 8 9 10 11	talking about type A coupler. This is a secondary bar, so this is a bar which is going to become later on to be connected to the coupler which is cast into the D-wall.Q. So the bar for that hand, is that work that Intrafor would do?
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	Page 133		Page 135
1	The key point is actually the bar is screwed	1	Okay, so here we can move it slightly, a little bit.
2	(demonstrating). Sorry, this is heavy. Okay. So,	2	So now it's engaged. So the coupler is fully moved
3	basically, you screw to the turn, so by hand, to the	3	to the bottom of the thread, so you cannot turn any
4	time it's up in position, and after you put a wrench	4	more. There's a range and that's it; it's engaged.
5	just to make sure it's engaged. That's it.	5	Then the connection is done, the splice is completed.
6	Q. When Intrafor installs the coupler in the D-wall, how is	6	Q. Does it matter that there is exposed thread sticking up
7	that protected against any damage or foreign material?	7	at the top of the coupler?
8	A. Okay. Actually, there will be a cap, a cap installed on	8	A. No. It has to be. It is absolutely normal for the
9	top of this coupler, which is actually it's a plastic	9	thread to be exposed, actually.
10	cap which is protecting the coupler and particularly	10	CHAIRMAN: It's designed that way?
11	inside the coupler with the threads. It's a protection	11	A. It's designed that way.
12	cap, plastic protection cap.	12	CHAIRMAN: You cannot do it unless you expose the thread?
13	Q. Sir, I'm not sure whether you have anything else, whilst	13	A. Exactly. It's designed that way, so it's absolutely
14	we have the type A coupler.	14	normal to see the thread. Actually, if we don't see the
15	Mr Gillard, do you know whether those samples	15	thread or sufficient thread, it would be a sign there is
16	actually have been provided from BOSA?	16	a problem.
17	A. The answer is I'm not 100 per cent sure. This is the	17	MR COHEN: And can you tell the Commission which type of
18	right answer. I presume, but I'm not 100 per cent sure.	18	coupler was used for the vertical connection between
19	(The witness was handed another physical exhibit)	19	cages?
20	Q. Mr Gillard, can you explain to the Commission what	20	A. Type B, so this type of coupler, position, position
21	you're holding?	21	splice.
22	A. I'm just going to check. It looks like a particular	22	COMMISSIONER HANSFORD: I would be happy for Mr Gillard to
23	type B coupler, or position coupler, position type	23	sit now.
24	coupler. I'm going to check first, to be 100 per cent	24	MR COHEN: Can I suggest also, before they get knocked over,
25	sure, find out if that's what it is. I know it because	25	that we possibly move the couplers as well.
	Page 134		Page 136
1	Page 134 the thread is much bigger on I know what it is	1	Page 136 CHAIRMAN: Yes, please, yes.
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	Page 137		Page 139
1	go in fact to F3, and at F3 can you see in bold a sort	1	looks like the action done by one of the steel fixers is
2	of subheading saying, "An article which appeared in	2	actually turning the coupler anti-clockwise. So it's
3	Hong Kong 01 on 20 July 2018"?	3	probably the disconnection of the two cages which were
4	Sir, a copy of that article which we will no doubt	4	fabricated inside the
5	want to go to in due course can be found in Chinese at	5	Q. Can I pause you there. Can you explain why you say
6	A62 to 70 and in English translation at A71 to 80.	6	that it was turned anti-clockwise, therefore you think
7	There is no need at this stage to go to the	7	it's probably the disconnection can you explain why
8	articles, but if I could take you back now to F4. You	8	you say that?
9	can see a bold subheading which is, "A further article	9	A. Because actually, when you turn anti-clockwise
10	which appeared in Hong Kong 01 on 18 July 2018", and,	10	a coupler, this is to unscrew. That's why we can see on
11	sirs, the Chinese for that is at A89 to 100, and in the	11	this section, the footage, again it's very short, but
12	English translation at 101 to 113.	12	when you zoom and when you look at it a few times, it
13	If I could then, please, take you to F6. You will	13	appears we can see clearly a coupler, so the coupler
14	see at the very top of F6, in bold, reference to two	14	is linking the two cages, and we can see the action of
15	articles which appeared in Apple Daily on 30 May 2018.	15	the steel fixer moving up, which means he is turning
16	Do you see that?	16	anti-clockwise, so very likely this is a disconnection
17	A. Yes.	17	of the two cages inside the steel fabrication yard.
18	MR COHEN: And, sirs, the Chinese of the first of those	18	Q. Can you explain to the Commission why you would be
19	articles is at A32 to 40 and the second in Chinese at	19	disconnecting cages in the fabrication yard?
20	A53 to 56. The English translation of the first one is	20	A. Okay. Actually, I think, as I've explained I think in
21	at 41 to 52 and of the second one, 57 to 61.	21	detail in my first witness statement, at the beginning
22	The first, the Hong Kong 01 articles, are you aware	22	of the project that we started, we had different
23	that they were posted online?	23	options. We envisaged different options regarding the
24	A. Yes, I'm aware.	24	connection of the cages, and one of the methodologies
25	Q. And there was in there an embedded link to a video clip?	25	was to actually prefabricate the steel cage, all the
	Page 138		Page 140
1	Page 138 A. Yes.	1	Page 140 steel cages, in the steelyard, and to connect them at
1 2	Page 138 A. Yes. Q. And that videolink is referenced in the bundle index as	1 2	Page 140 steel cages, in the steelyard, and to connect them at the steelyard, just to try to facilitate the
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 A. Yes. Q. And that videolink is referenced in the bundle index as A1/9A. Hopefully you can now be shown a copy shown the actual video itself, with I think English subtitles that have been added on. If you could watch that to the end and then we will come back and I will ask you some questions about it. Thank you. (Video played) Have you seen that video clip before? A. Yes. Q. The section which in fact we can just see a little clip of now shows what can you explain what you believe that shows? A. As I explained in my first witness statement, actually, this footage was clearly taken at the steel fabrication yard, not at the cage where we installed not at the diaphragm wall panel location, because the cage is in horizontal position, so this can only be done at the steel fabrication yard which is within the site but not at the D-wall location itself. And apparently okay, given that I think the media indicated it was done in July, this footage, so it probably can only be the rebar cage of panel EM98, and this is probably because we can see one of the steel fixers which is actually 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Page 140 steel cages, in the steelyard, and to connect them at the steelyard, just to try to facilitate the reconnection later on inside the panel. And when we first started the project, in July 2013, actually we started using this first method. So all the elements seem to match. July 2013 you have only one panel, and this is panel EM98, and on this very first panel we tried this method to start with, which implied the fabrication of all the cages in the steelyard and the connection of all the different cages together at the steelyard prior to be sent after to the panel. So, yes, we needed to disconnect all the cages after connection in the steelyard. Q. Why did you have to disconnect? A. Because we can only install the cages in short sections, so we need to disconnect to be able to install them. If we don't disconnect, the cage is going to be too long, so we cannot install them. Q. After they have been disconnected, what's the next thing that will happen? A. So, after they are disconnected, they may be stored stored or not stored, depending on the timing and then transported after to the location of the panel itself, in the right order, and they will be installed

	Page 141		Page 143
1	Q. If we can go to page A115, we have in this section of	1	Q. You were talking about a yellow beam when I paused you.
2	the bundle a series of stills which I understand the	2	A. Yes, we just see the bottom, so we cannot really see
3	Commission, or at least the Secretariat, has kindly	3	completely the beam, but on the top left you can see
4	arranged to take from the video and sort of	4	some yellow elements, steel elements, but we cannot
5	freeze-frame.	5	really see those are beams, I would say.
6	If you look at A115, there are two photographs. Can	6	CHAIRMAN: That looks like yellow steel girders
7	I ask you to look at the bottom photograph. Can you	7	A. Exactly.
8	describe to the Commission what you see in that	8	CHAIRMAN: coming out of a concrete column.
9	photograph?	9	A. Yes, exactly. But actually, you have, above that, steel
10	A. This photograph I see six workers who are obviously	10	beams. There are some other pictures in my witness
11	steel fixers but more importantly I see a cage which is	11	statement where you can
12	in a horizontal position with an L-frame, so basically,	12	MR COHEN: If we can go to F2/1030.
13	clearly, this is our steel fabrication yard. I can also	13	A. Okay, yes. This is much better.
14	see also you get the title	14	Q. Can you point out, please, if you see the yellow beams?
15	Q. Sorry, can I pause you there for a second. You say	15	A. Okay. So we can see clearly on the right-hand side, you
16	there's an L-frame. It may be difficult to do this	16	can see quite, I mean, yes, at height, a yellow beam
17	given the angle of your screen, but can you try to show	17	with some stiffeners at regular intervals, so quite
18	or point out to the Commission what it is that you say	18	a big beam, maybe 600 millimetres or maybe 1 metre tall
19	constitutes the L-frame?	19	beam. You have the same, the equivalent on the
20	A. Okay. The L-frames are actually the grey vertical	20	left-hand side, which actually appears in green or red
21	beams, double beams, which are made of U-channels. You	21	colour on the picture but actually in reality it's
22	can see some holes inside, so actually they are used to	22	yellow. So those beams were there when we arrived on
23	suspend, which suspend which support the cage which	23	the site and I think they were existing from previous
24	is under fabrication. We call them L-frame because then	24	structure and probably another gantry frame.
25	they go horizontally and it's supported on the ground,	25	But very interestingly it was the only place,
	Page 142		Page 144
1	so the general shape is L-shape. But those are the	1	location, within the site where you could find such
2	grey, the grey beams, with holes, a series of holes,	2	beam, so I can say for sure where those pictures were
3	along.	3	taken.
4	Q. And you described it may be helpful if we zoom in on	4	O. Other than the steelyard, was there anywhere else where
5	the photograph so that we can see the actual metalwork		
6	the photograph so that we can see the actual metalwork,	5	you had these L-shaped platforms?
	but you described the cages as sitting horizontally.	5 6	you had these L-shaped platforms? A. Are you talking L-shaped platform
7	but you described the cages as sitting horizontally. Can you explain why you say that?	5 6 7	you had these L-shaped platforms? A. Are you talking L-shaped platform Q. Sorry, not looking at this picture, just generally. You
7 8	but you described the cages as sitting horizontally. Can you explain why you say that? A. Okay.	5 6 7 8	you had these L-shaped platforms?A. Are you talking L-shaped platformQ. Sorry, not looking at this picture, just generally. You have described there were L-shaped platforms used
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	Page 145		Page 147
1	A. Yes.	1	CHAIRMAN: Or an inspector taking a shot so that he's got
2	Q. Can you describe to the Commission, for EM98,	2	an instant record of what has happened?
3	specifically what sorts of problems were encountered, if	3	A. Exactly, yes.
4	any, during the disconnection of cages in the steelyard?	4	CHAIRMAN: Thank you.
5	A. Okay. It was actually not a very smooth operation, it	5	MR COHEN: In front of you, you've got page A90, and there's
6	was actually relatively difficult, therefore	6	a photograph. Can you describe to the Commission what
7	time-consuming, to actually disconnect the cages. One	7	you can see in that photograph?
8	of the reasons was, first of all, you've got three	8	A. Okay. So, clearly, here the scene is very different.
9	layers of very big bars together, so it's congested so	9	The main rebars are clearly in vertical position. We
10	it's difficult to access, and probably due to the whole	10	can see on the back, we can see some tracks,
11	weight of the structure, it doesn't take much deflection	11	actually. So this is basically the tracks of a crawler
12	on the bar actually to make it difficult to actually	12	crane. If you are used to equipment, you can recognise
13	unscrew it, so it needed some tools to disconnect. And	13	it relatively easily, maybe not so easy for people who
14	actually you've got, again, once everything is	14	are not familiar, but for me that's very, very clear,
15	connected, it's difficult to use tools because you've	15	very easy to recognise. You've got tracks of a crane on
16	got no more space to put your wrench or whatever to try	16	the back. You've got a worker. So I know where it is.
17	to unscrew.	17	So it's very likely, very, very likely, this picture
18	So, at the end of the day, I mean, the conclusion	18	shows connection of two cages at the D-wall location, so
19	was very clear. I mean, it was time-consuming,	19	most likely at the D-wall location, connecting to cages,
20	definitely, very much time-consuming, to disconnect the	20	and the need for we are using crawler crane actually
21	cages, and we found after, actually, at the panel	21	as a lifting equipment, and we've got someone as well
22	location, that it was not bringing any advantage, net	22	we've got a man, we can see his boot, we can see his
23	advantage.	23	trousers, with his reflective strips just below his
24	Q. If we could now go, please, to page A90.	24	knee, so we know exactly where is the ground level, so
25	CHAIRMAN: Sorry, as a matter of interest, who would be	25	it makes sense, all sense, yes.
	Page 146		Page 148
1	filming this?	1	So this is most very likely the installation of two
2	A. We've got a lot of nowadays, everybody has	2	cages.
3	a telephone with a camera, especially in Hong Kong,	3	Q. And it's clear, I think, that some of those couplers
4	so	4	have not yet been connected or are not connected
5	CHAIRMAN: It wasn't done by you, for example, for any	5	properly; is that correct?
6	purpose or anything like that, that you know of? Just	6	A. That's for sure. There is one, the second one, starting
7	somebody having	7	from the right, is not yet connected. This is true,
8	A. This one was not done by me, but it could have been.	8	yes.
9	I've got in my telephone footage of very basic things	9	Q. Are you able to tell from the photograph why it's not
10	that sometimes I find interesting so I'm going to take	10	yet connected?
11	my	11	A. Yes. Very clearly, we can cannot see we can see the
12	CHAIRMAN: Yes.	12	bottom bar, the thread is fully exposed. We should not
13	A. And I do it regularly, I would say.	13	see any thread. And the top bar, we see the coupler and
14	So it can be to answer your question, it can be	14	we don't see any thread above the coupler. If you
15	an engineer, can be an inspector, yeah, and it makes	15	compare with the bar on the right, or the bar on the
16	sense as well. We are at the beginning of the project.	16	left, it's very different. You've got the coupler, we
17	People are we try to record and to be able to discuss	17	can see the thread on the top and we cannot see any
18	after how things were going and just to be able to	18	thread below the coupler. So they are an indication of
19	discuss after and to debate whether we want to continue	19	most likely connected already.
20	using this method or maybe if we want to change or	20	Q. Do you know when this photograph was taken?
21	improve. So the need to record makes sense.	21	A. Not from this picture, but I suspect okay. I think
22	CHAIRMAN: Yes. I can see so in fact it wouldn't be	22	we are talking about July, so again, if it's the media,
23	unusual at all to have people taking shots, especially	23	they were talking about July, so if it is July, it can
24	at an early stage like that?	24	only be EM98, because this was the only panel, the very
25	A. Exactly.	25	first panel in the construction, so it's going to be

37 (Pages 145 to 148)

	Page 149		Page 151
1	very likely EM98, yes.	1	work they are here to witness how the works are
2	Q. Can you remember how many days it took to make sure	2	progressing.
3	or to install all of the cages and connect them up in	3	Q. Before we move from this picture, can we zoom in to the
4	EM98?	4	left-hand side bottom. There.
5	A. Okay. This is mentioned in my witness statement, but if	5	A. Yes.
6	my memory is correct, I think this is we started the	6	Q. If we go from there to page F1037.
7	26th to the 31st, so it should be five days, yes, so	7	CHAIRMAN: As a matter of interest, on the side of that
8	definitely	8	tubing, it says EM98.
9	Q. Are you able to tell us at what time or which day this	9	MR COHEN: Indeed.
10	photograph was taken?	10	A. Correct. Yes.
11	A. No. This picture could have been taken at any time	11	Q. And that is
12	during the installation process. So it's a long	12	A. Clearly, yes.
13	installation process. It's definitely a work in	13	Q. Can you tell us what that piece of tubing is?
14	progress for me.	14	A. This is a reservation pipe, so there are inside the
15	Q. Does this photograph show the connections as completed?	15	steel cages we need to put what we call reservation
16	A. No, definitely not.	16	pipes. This one is a big diameter so probably for shear
17	Q. Why do you say that?	17	pin installation, but otherwise so it's a reservation
18	A. Because at least one of the couplers is not installed,	18	pipe.
19	so this is	19	CHAIRMAN: Sorry, what does a reservation pipe do?
20	Q. If we could go to A93, there is another photograph. Can	20	A. A reservation pipe is basically how to explain so
21	you describe what you see in that photograph?	21	it's a pipe, the purpose is to leave an opening inside
22	A. Yes. So it seems to be it looks like a very, very	22	the panel, so something which is not filled with
23	similar scene. Actually, it's maybe exactly the same	23	concrete, to do an activity later on. So, for example,
24	scene. If you really zoom I cannot guarantee, but	24	we've got reservation pipes for testing, for sonic
25	you've got a lot of similarities. Like, for example, if	25	testing, so testing after the panel. So we need to put
	Page 150		Page 152
1	Page 150 you really zoom in, you will see that there is only one	1	Page 152 some instruments inside the panel. So, instead of
1 2	Page 150 you really zoom in, you will see that there is only one coupler, except the one completely on the right, but	1 2	Page 152 some instruments inside the panel. So, instead of coring and drilling through the concrete, we keep some
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	Page 153		Page 155
1	Basically, this document is a record of the inspection	1	afraid, but we can make a start at least.
2	performed by us. MTR and Leighton, recording and	2	What I want to do is ask you just a few questions on
3	confirming that inspection were carried out for the	3	the contract that you had with Leighton, not many. Then
4	connection of the different cages, recording that	4	I want to look at a couple of points on the sub-contract
5	inspection were done and found satisfactory. So the	5	arrangements that you had with Bachy and Hung Choi.
6	signature is if you zoom, you can see it's written	6	Then I want to look at certain panels, and Mr Cohen has
7	"Coupler connection inspected, cage 4 to 3, cage 6 to	7	taken you to EM98 in some detail already but there are
8	5", and so on, and so on.	8	iust a couple of points I want to pick up on that
9	So this is a record that the inspections were	9	particular panel. Then I want to look at some other
10	performed, inspections of the connection were performed	10	panels because they may be of interest going forward in
11	and found satisfactory by the different parties.	11	the Commission. I then want to ask you a few questions
12	O. Were all of these connections for panel EM98 dealt with	12	about BD requirements and compliance and so forth and
13	with paperwork like this, or are there any that are	13	then hopefully that will be it
14	different?	14	Mr Gillard before I do any of that can I just
15	A Sorry can you repeat your question?	15	understand your precise role: you are a director of
16	O Are all of the connections illustrated or recorded like	16	Intrafor?
17	this or are there any for FM98 that are not?	17	A Yes I'm the managing director of Intrafor
18	A I think they are all connected like that so there	18	O In relation to this particular contract that you had
19	should be yes no all the connections are as	19	with Leighton how often would you personally go to the
20	far as I remember all the connections are recorded like	20	site?
21	that us	20	A Okay I would say generally twice a month and have
21	CHAIRMAN: I think you misunderstood. I think the question	$\frac{21}{22}$	minimum once a month
22	was Mr Gillard: was this summary sheet that's been	22	O Right Would you visit when you went both the
$\frac{23}{24}$	signed the only sheet that was signed in respect of all	23	fabrication yard and the areas where the diaphragm walls
25	the cages for FM98?	25	were being installed?
25	the edges for EM70.	25	were being instance.
	Page 154		Page 156
1	Page 154 A. Ah, okay.	1	Page 156 A. Yes, I mean, that's part of the inspection, yes, so in
1 2	Page 154 A. Ah, okay. CHAIRMAN: In other words, this was a standard form?	1 2	Page 156 A. Yes, I mean, that's part of the inspection, yes, so in general, yes, of course the steel fixing yard would
1 2 3	Page 154 A. Ah, okay. CHAIRMAN: In other words, this was a standard form? A. Yes. This is a standard form, if this is your question,	1 2 3	Page 156 A. Yes, I mean, that's part of the inspection, yes, so in general, yes, of course the steel fixing yard would be maybe not systematically, but that's a key element
1 2 3 4	Page 154 A. Ah, okay. CHAIRMAN: In other words, this was a standard form? A. Yes. This is a standard form, if this is your question, yes.	1 2 3 4	Page 156 A. Yes, I mean, that's part of the inspection, yes, so in general, yes, of course the steel fixing yard would be maybe not systematically, but that's a key element of my site visit, yes.
1 2 3 4 5	Page 154 A. Ah, okay. CHAIRMAN: In other words, this was a standard form? A. Yes. This is a standard form, if this is your question, yes. In addition to that, there are some maybe there	1 2 3 4 5	Page 156 A. Yes, I mean, that's part of the inspection, yes, so in general, yes, of course the steel fixing yard would be maybe not systematically, but that's a key element of my site visit, yes. Q. You have helpfully provided us with a plan, F34/19755,
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	Page 157		Page 159
1	doesn't matter which one, but it would have been taken	1	If we could go, please, to page F140, you see there
2	in one of those yards?	2	a brief description of the sub-contract works, that is
3	A. Exactly, definitely.	3	the sub-contract between you and Bachy; do you see that?
4	CHAIRMAN: How far are those two turquoise oblongs from the	4	A. Yes.
5	diaphragm wall outline which is shown in the plan and	5	Q. And it's described as "Provision of resources for
6	it's in emerald green?	6	diaphragm wall, barrette piles and associated
7	A. Okay. I think you are talking about 50 to 100 metres,	7	construction works".
8	so it's definitely maybe you can measure it, but at	8	Precisely what was it that you sub-contracted to
9	least 50 metres, the D-wall is at least 50 metres away	9	Bachy? I mean what part of the works?
10	from the fabrication yard.	10	A. The diaphragm wall, yes.
11	CHAIRMAN: Thank you.	11	Q. I'm sorry?
12	A. Probably closer to 100.	12	A. The diaphragm wall, yes, the works.
13	MR PENNICOTT: Right. Thank you for that, Mr Gillard.	13	Q. What part of any particular part of the works?
14	So far as a couple of points on the contract are	14	A. No, no, no, it's not a specific location, if this is
15	concerned, you mention in a couple of places in your	15	your question. We didn't split the project
16	witness statement about tolerances.	16	specifically, yes.
17	A. Yes.	17	Q. So they were providing you with resources; is that
18	Q. Just two points I want to pick up with you. First of	18	right?
19	all I don't think there's any dispute about either of	19	A. Yes, that's correct.
20	these but one of them we have looked at and one we	20	Q. What resources?
21	haven't could you look, please, first of all, at	21	A. Specialised equipment and specialised people.
22	page F1422.	22	O. And that was all under your control?
23	In your witness statement in a couple of places,	23	A. Yes, this is correct.
24	Mr Gillard, you refer to the water seepage tolerance.	24	O. I see. So it wasn't split up in any way; it was just
25	A. Yes.	25	the provision of machines and presumably operatives?
	Page 158		Page 160
1	Q. And is this the provision, that is at 19.77, that you	1	A. Yes, correct.
2	are referring to?	2	Q. And under your direction yes, I follow.
3	A. This is correct.	3	You did that under some partnering arrangement, as
4	Q. Okay. Thank you for that.	4	I understand it?
5	Then if we could go to F1429, so just on a few	5	A. Yes, this is correct.
6	pages, this is part of 19.95, and then (5); do you see	6	Q. If we go we can pick that up from page 149, and the
7	that?	7	details of the partnering arrangement are there set out.
8	A. Yes.	8	A. Okay.
9	Q. You see there the words, "The tolerances in positioning	9	Q. So far as the bar bending and fixing and so forth is
10	reinforcement and couplers shall be as follows", and we	10	concerned, which is more important, you sub-contracted
11	see the "longitudinal tolerance of cage head at the ton	11	that to Hung Choi?
12	see the longitudinal tolerance of cage head at the top		
13	of the guide wall and measured along the trench: plus or	12	A. This is correct.
15	of the guide wall and measured along the trench: plus or minus 75 millimetres"; and then similarly for the	12 13	A. This is correct.Q. Page 221, please.
14	of the guide wall and measured along the trench: plus or minus 75 millimetres"; and then similarly for the vertical tolerance.	12 13 14	A. This is correct.Q. Page 221, please.Had you worked with Hung Choi previously,
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13 14 15 16 17	of the guide wall and measured along the trench: plus or minus 75 millimetres"; and then similarly for the vertical tolerance. Is this the tolerance that you are referring to in your witness statement? A. Yes. This one is specifically the tolerance for the	12 13 14 15 16 17	 A. This is correct. Q. Page 221, please. Had you worked with Hung Choi previously, Mr Gillard? A. Yes, definitely. We selected Hung Choi and not another sub-contractor actually because we knew them from
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13 14 15 16 17 18 19 20 21 22	 see the tongruunnar toterance of eage head at the top of the guide wall and measured along the trench: plus or minus 75 millimetres"; and then similarly for the vertical tolerance. Is this the tolerance that you are referring to in your witness statement? A. Yes. This one is specifically the tolerance for the coupler, yes, for the diaphragm wall cage, yes. Q. Thank you. Then so far as your sub-contracting arrangements are concerned, you sub-contracted a large portion of the works to a company called Bachy; is that right? 	12 13 14 15 16 17 18 19 20 21 22	 A. This is correct. Q. Page 221, please. Had you worked with Hung Choi previously, Mr Gillard? A. Yes, definitely. We selected Hung Choi and not another sub-contractor actually because we knew them from previous project and actually we believe they are the most qualified, and we thought they were the best for this project, this project being a little bit unusual, especially in terms of steel fixing. Although they were not the cheapest, we elected to take them because we
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	Page 161		Page 163
1	A. Yes, definitely.	1	A. Most likely, yes.
2	Q. They did, as I understand it, all the steel	2	Q. It may not be such a big point but can you explain why
3	reinforcement cage fabrication?	3	they might have got lost?
4	A. Yes.	4	A. Okay. So the project was a few years ago. We kept
5	Q. And then, having fabricated, participated no doubt, in	5	archive. Okay, we have lost some other documents. So
6	installing those cages at the diaphragm wall locations?	6	you could imagine that these documents could have been
7	A. This is correct, yes.	7	lost as well. But I think, importantly, I don't know if
8	Q. And the financial arrangements you had with them we can	8	you are aware, but there are some other documents which
9	pick up if you go to page 242, which is essentially	9	actually record that the inspection took place. Like,
10	some quantities and rates for various sizes of the	10	for example, yes, we don't have this specific form, but
11	rebar?	11	we've got a RISC form for those panels.
12	A. Mm-hmm.	12	Q. I understand that. We can go to other locations. All
13	Q. And over the page at 243 and 244, a series of labour	13	right.
14	rates?	14	Also, just to get this point out of the way as well,
15	A. Yes.	15	there are documents called coupler-by-coupler inspection
16	Q. And, if we go back to 242, towards the top, that was all	16	sheets.
17	on the basis that everything, all the quantities, were	17	A. Yes.
18	provisional and were subject to re-measurement?	18	Q. And, again, you've managed to locate 225 of those out of
19	A. Yes.	19	256.
20	Q. And, Mr Gillard, so far as you can recall, did Hung Choi	20	A. Yes.
21	do a satisfactory job for you on this sub-contract?	21	Q. Is that still the position?
22	A. Yes, very much.	22	A. Yes.
23	Q. Could we just go back to EM98. I'm not going to go back	23	Q. Could we go to F13649, please.
24	to the video and the photographs, and so forth, which	24	CHAIRMAN: Sorry, the coupler-by-couplers located 225 out of
25	Mr Cohen has kindly taken you to, albeit it at my	25	256?
	Page 162		Page 164
1	request and invitation, and I thank him for it.	1	MR PENNICOTT: Yes. It was 225 have been located out of
2	However, could we just go back to the panel record that		256
2		2	230.
3	Mr Cohen took you to. I'm afraid I am going to go to	2 3	230. CHAIRMAN: Thank you.
3 4	Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it,	2 3 4	CHAIRMAN: Thank you. MR PENNICOTT: This is the summary sheet for panel 98,
5 4 5	Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it, Mr Gillard, in your first witness statement or exhibited	2 3 4 5	CHAIRMAN: Thank you.MR PENNICOTT: This is the summary sheet for panel 98, EM98
5 4 5 6	Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it, Mr Gillard, in your first witness statement or exhibited to your first witness statement were just a selection of	2 3 4 5 6	236.CHAIRMAN: Thank you.MR PENNICOTT: This is the summary sheet for panel 98, EM98A. Yes.
5 4 5 6 7	Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it, Mr Gillard, in your first witness statement or exhibited to your first witness statement were just a selection of the panel records.	2 3 4 5 6 7	 CHAIRMAN: Thank you. MR PENNICOTT: This is the summary sheet for panel 98, EM98 A. Yes. Q that we were looking at a moment ago with Mr Cohen,
5 6 7 8	Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it,Mr Gillard, in your first witness statement or exhibited to your first witness statement were just a selection of the panel records.A. Yes.	2 3 4 5 6 7 8	 CHAIRMAN: Thank you. MR PENNICOTT: This is the summary sheet for panel 98, EM98 A. Yes. Q that we were looking at a moment ago with Mr Cohen, albeit in a different place. Could we scroll down to
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it, Mr Gillard, in your first witness statement or exhibited to your first witness statement were just a selection of the panel records. A. Yes. Q. And then subsequently you provided us with the full panoply of records. A. Yes. Q. Albeit, can you just confirm this, Mr Gillard, my understanding is from I think your 2nd or 3rd witness statement that you have managed to locate 251 out of 256 cage-by-cage inspection forms? A. Yes. Q. An example of which we looked at a short while ago? A. Correct. Q. We will come back to EM98 in a moment. So we are missing five? A. We haven't been able to locate five, yes, so far. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 CHAIRMAN: Thank you. MR PENNICOTT: This is the summary sheet for panel 98, EM98 A. Yes. Q that we were looking at a moment ago with Mr Cohen, albeit in a different place. Could we scroll down to the bottom of the page, please. I just want to pick this up, which I don't think we looked at with Mr Cohen. On this particular form, Mr Gillard, we see that it is signed as a correct record by Intrafor, Leighton and MTR? A. This is correct. Q. And signed relatively proximate to the date upon which the panel was completed? I think the concreting took place on 1 August? A. This is correct. Q. If we could just go back again to 13654 I think this is again what we were looking at with Mr Cohen earlier. A. Yes.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Mr Cohen took you to. I'm afraid I am going to go to a slightly different place because, as I recall it, Mr Gillard, in your first witness statement or exhibited to your first witness statement were just a selection of the panel records. A. Yes. Q. And then subsequently you provided us with the full panoply of records. A. Yes. Q. Albeit, can you just confirm this, Mr Gillard, my understanding is from I think your 2nd or 3rd witness statement that you have managed to locate 251 out of 256 cage-by-cage inspection forms? A. Yes. Q. An example of which we looked at a short while ago? A. Correct. Q. We will come back to EM98 in a moment. So we are missing five? A. We haven't been able to locate five, yes, so far. Q. And you've obviously been carrying out ongoing searches for these five 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22	 CHAIRMAN: Thank you. MR PENNICOTT: This is the summary sheet for panel 98, EM98 A. Yes. Q that we were looking at a moment ago with Mr Cohen, albeit in a different place. Could we scroll down to the bottom of the page, please. I just want to pick this up, which I don't think we looked at with Mr Cohen. On this particular form, Mr Gillard, we see that it is signed as a correct record by Intrafor, Leighton and MTR? A. This is correct. Q. And signed relatively proximate to the date upon which the panel was completed? I think the concreting took place on 1 August? A. This is correct. Q. If we could just go back again to 13654 I think this is again what we were looking at with Mr Cohen earlier. A. Yes. Q. The process, clearly, is you start at the bottom, in this again with agap 7.
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	Page 165		Page 167
1	A. Correct.	1	So this is not contemporaneous records. The one behind,
2	Q until they get to cage 1.	2	like for example the cage-to-cage, when we do the
3	And with regard to the photographs that we were	3	verticality check, when we do the concrete plot, you can
4	looking at a short while ago, where we could see the	4	see it's handwritten as well, and those are
5	connections between the bars and the couplers, so far as	5	contemporaneous records; okay?
6	you're aware was the focus very much on the couplers and	6	So I can understand as well, I think you are right,
7	whether or not they were properly installed?	7	I can understand why other people don't necessarily want
8	A. Of course.	8	to sign those, because first, maybe there will be some
9	Q. That was the key thing, presumably?	9	discrepancies and actually we find later into the
10	A. I mean, the cage itself is also very important. You	10	project that by copying or recopying things we add some
11	need to when you do the inspection, you need to make	11	mistake, minor but we still add, and there is no need.
12	sure that you've got the right number of bars and	12	Q. And when this summary sheet is compiled, has been
13	couplers and everything, you've got the right space.	13	compiled, what happens to it? Who gets a copy of this
14	The focus was clearly, on this particular project, on	14	document? Do you keep it yourself, do you send it to
15	the coupler, on the connection, and using couplers, yes.	15	Leighton, do you send it to MTR; who gets this document?
16	Q. Right. If we could go to the next page, please, 13665.	16	A. Okay. So I think I'm not 100 per cent, this would
17	CHAIRMAN: Mr Pennicott, sorry to bother you, this evening,	17	have to be double-checked, but normally this panel
18	I trust you will bear with me, I do need to leave at	18	record will be submitted to the main contractor,
19	5 minutes to, so I'm going to seek everybody's	19	Leighton, for submission after to MTR soon after the
20	indulgence and adjourn five minutes early this evening.	20	construction, so maybe one week, two weeks after,
21	MR PENNICOTT: Yes, sir. That's fine.	21	maximum. We don't keep them up to the end, that's
22	CHAIRMAN: Thank you.	22	normally the trend, and they are actually part of the
23	MR PENNICOTT: Can we just finish off this point 13665,	23	submission to part of the exercise at the end of the
24	I'm sorry. Could we scroll down to the bottom of that	24	project, part of the as-built records which are actually
25	one. Sorry, back to the top.	25	submitted to BD. So, yes.
	Page 166		Page 168
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