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22       of this incident either until media reports later that       22       TM Lee, Aidan Rooney, Jason Wong and also Lincoln Leong         23       evening.       23       should leave [the MTR]."         24       CHAIRMAN: Thank you.       24       Do you see that?         25       Mr Khaw.       25       A. (In English) Yes.         26       Page 2       Page 4         1       MR KHAW: Thank you, Chairman. The government's next       2       also asked to comment on this paragraph.         3       Mr Chan, who is now sitting at the witness seat.       4       Mr Chan, just to confirm your full name is Chan Fan;         6       WITNESS: (In English) Yes, that's correct.       7       MR CHAN FAN, FRANK (affirmed in Punti)         7       MR CHAN FAN, FRANK (affirmed in Punti)       7       Confidence in the team depends on a number of factors.         8       (All answers given via simultaneous interpreter       9       in handling the SCL project. Secondly, if in the past,         9       except where otherwise specified)       9       in handling the SCL project. Secondly, if in the past,         10       Examination-in-chief by MR KHAW       10       if three were mistakes committed by this team, then we         11       MR KHAW: Mr Chan, would you tike to give your evidence in       11       And also owe would need to take forward				
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	25	page. Can you confirm that this is your signature?	25	report, and on the site, when we checked the technical

	Page 5		Page 7
1	drawings, we saw signatures and dates shown.	1	mistakes or omissions on their part, so that we can no
2	Given such circumstances, we had reason to believe	2	longer hold trust in the team. We were also concerned
3	that the report reflected the truth. However,	3	about the structural safety of Hung Hom Station in
4	afterwards, after that, our colleague had to carry out	4	respect of the structures, the platform and the other
5	some load test and we had to review the proposal coming	5	works. This would be an important factor, important
6	from the MTRCL, to see if the checker would be	6	indicator, that we need to take into account. If
7	reasonable and could address concerns and can ensure	7	there's anything that may affect public safety or
8	structural safety.	8	structural safety, it would certainly not be acceptable
9	In that process, we worked with the MTRCL team to	9	to us.
10	follow up. At that point, the MTRCL team did not tell	10	We cannot accept such mishaps on the part of MTRCL,
11	us that the design was somehow amended and modified.	11	and as I've said, we would have to take forward SCL in
11	Then, on 13 July, the MTRCL made a proposal on the load		any case, because this is a very important strategic
12	test, and then there were three attachments which are	12	
			infrastructure project for the government. It would link up the Ma On Shan Line to the West Rail Line and
14	attachments A, B and C. In attachments B and C, we saw	14	1
15	that the design pertaining to the structure was at	15	reaching the north of Hong Kong Island and also all the
16	variance with the original one, to a great degree. The	16	way to Admiralty. It's very important for our future
17	MTRCL did not tell us beforehand that there was such	17	transport network. So we would have to continue to
18	a change.	18	press on with the project.
19	If the MTRCL team failed to detect that	19	But as I've said, we look at the past track record,
20	discrepancy sorry, if they managed to detect that	20	the magnitude of the problem, and we asked whether we
21	discrepancy, then the report wouldn't have been worded	21	should continue to rely on the same team to take forward
22	like this. That's why we asked them to produce or to	22	the project. We had great reservations at that point.
23	present the drawings, and then we came to realise that	23	That is why we made public that we lost confidence.
24	the relevant design modifications were not carried out	24	That is a fact. But behind that fact, we had considered
25	with drawings and there was no as-built drawings	25	many things. We considered what happened, the scale of
	Page 6		Page 8
1	prepared for that.	1	what happened, the impact on the public, and whether we
2	So our concern at that point was if on 15 June	2	would have enough evidence to ensure that the project
3	report and if the drawings that we saw were correct,	3	would be completed on schedule and whether it would be
4	then what's the status of the 13 July report or was it	4	built to specifications. These are our considerations.
5	accurate? We saw some sketches. If those sketches were	5	MR KHAW: Thank you, Mr Chan. I have no further questions
6	accurate, then we will have a lot of concerns and	6	for you. So now counsel team acting for the
7	reservations about the previous report in June, as well	7	Commission I suppose it should be Mr Pennicott
8	as the authenticity of the drawings that we saw on site	8	today will be asking you some questions. Lawyers
9	with the signatures and the dates shown on drawings.	9	acting for the other parties may also ask you some
10	So, if you have heard me out, you would certainly	10	questions. In the meantime, Chairman and Commissioner
11	have reacted like me. If we have entrusted a team,	11	would also like to ask you some questions. And finally
12	a project to such a team, and if that's the performance	12	we will see whether it is necessary for me to ask you
13	they have delivered, then you would wonder whether the	13	any other questions.
14	basis of trust is still there.	14	So please be seated. Thank you.
15	Of course we have been describing the facts as we	15	Examination by MR PENNICOTT
16	are presented. We don't want to make any accusation	16	MR PENNICOTT: Good morning, Mr Chan.
17	without evidence, and we don't want to make any accusation	17	A. (In English) Good morning, Mr Pennicott.
18	one-sided allegation. So we have been acting with a lot	18	Q. As Mr Khaw has just indicated, as one of the counsel to
19	of restraint. We have just been informing the public of	19	the Commission, I get to ask you a few questions first.
20	facts which are not in dispute. Of course, in the	20	Indeed, it is only a few questions I'm not going to
20	course of the dealings, we have other observations and	21	detain you very long and indeed, given the answer
21	we have other views; that's another level, that's	21	that you've just given to Mr Khaw, I have even less
22	another matter.	22 23	questions than I had before.
23 24	In respect of the performance of the MTRCL	23 24	In terms of, Mr Chan, the role of the Transport and
		24 25	*
25	management team, we wonder whether there were any	23	Housing Bureau in the SCL project, as I understand it,

	Page 9		Page 11
1	really it was a general oversight and monitoring role	1	had the responsibility to show the public that the
2	that the bureau had; is that right?	2	construction was in line with structural safety and
3	A. What you said is a fact, but apart from that well,	3	public safety. That is why we wanted to have a load
4	yes, we do overall monitoring and oversight, but	4	test conducted, so that the public could see that the
5	actually we also have the responsibility that the	5	construction was in line with requirements and it was
6	project would be carried out smoothly, that there would	6	safe to use it. That was our thinking at that time.
7	not be any budget overrun, that it should be completed	7	Q. Yes. As I understand it, Mr Chan, the underlying
8	on schedule, and also its quality and safety must be	8	assumption, when requesting the load test, was that it
9	ensured.	9	was known what was there, as it were, how the slab had
10	Q. Yes. And Rebecca Pun, one of your colleagues	10	been built, how the connections had been made, and that
11	A. (In English) Yes.	11	was the assumption you made in requesting a load test?
12	Q who has not been required to give evidence in the	12	A. That's correct.
13	Commission, explains that that oversight and monitoring	13	Q. All right. As matters have unfolded, the load test has
14	role focuses, as you have just indicated, on progress	14	really been put on the backburner and in favour of, as
15	and cost primarily, and the vehicle through which the	15	we now know, an opening-up process?
16	bureau does that is through, primarily again, project	16 17	A. That is right. As, Mr Pennicott, you said just now, at
17 18	supervision committee meetings. Is that right? A. Basically, together with the Highways Department, we	17	that time we assumed that the construction details were clear and clearly recorded, but afterwards, with the
10	held monthly meetings. You mentioned the project	18 19	15 June report and also the 13 July letter, we found
20	supervision committee. That is a committee chaired by	20	that even today we still do not know the actual
20	the Director of Highways.	20	construction. That is why we decided that with regard
22	At the bureau level, on a monthly basis, I have	22	to parts of the slab and other works, we had to break up
23	regular meetings with all executing departments, we	23	the concrete to review the procedures. We want to be
24	review their work, and also on matters of public concern	24	100 per cent sure of all the construction details before
25	or whether there are strategic or political issues we	25	we would consider again whether the load test would be
	Page 10		Page 12
1	would hold detailed discussions on those.	1	necessary, and if necessary how it should be conducted,
2	Q. Yes, understood. The reason that the bureau is involved		
-		2	because without knowing the construction details and
3	in this monitoring role is because the Highways	2 3	because without knowing the construction details and going ahead with the load test, there will be a risk
3 4	in this monitoring role is because the Highways Department has the Railway Development Office within it,		
	Department has the Railway Development Office within it, and the execution of, for example, the entrustment	3	<ul><li>going ahead with the load test, there will be a risk involved.</li><li>Q. Yes. Could I then just briefly because you have</li></ul>
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	Page 13		Page 15
1	Mr Pennicott, you mentioned Sunday and those who	1	Q. Yes. Understood. That was on the 6th.
2	were involved in the meeting. Apart from me and the	2	On 7 August, you attended an MTRC special board
3	Director of Highways, there were other colleagues of	3	meeting, in your capacity as an independent
4	government, and some of them were outside the TH Bureau;	4	non-executive sorry, as a non-executive director of
5	they were from other bureaus. But as to the names of	5	the MTR?
6	the people involved, I don't know whether I should	6	A. Correct.
7	disclose them and whether it is necessary for me to	7	Q. And, at that meeting, you were asked by Prof Ma to state
8	disclose them at the hearing today. Please instruct.	8	the government's view on the matter?
9	Q. No, it is not necessary. I just want to know: there was	9	A. Correct.
10	a group of government officials in addition to yourself	10	Q. Which you did.
11	and Mr Chung?	11	A. Correct.
12	A. That is correct. What I can say is the bureaus and	12	MR PENNICOTT: Thank you very much, Mr Chan. I have no
13	departments that were involved in the project, some	13	further questions.
14	people were attending from those organisations.	14	WITNESS: Thank you.
15	Q. All right. So somebody from the Buildings Department	15	Cross-examination by MR SHIEH
16	and somebody from the Development Bureau?	16	MR SHIEH: Leighton has some questions.
17	A. Correct.	17	MR BOULDING: MTR has no questions, sir.
18	Q. Okay. That's fine.	18	MR TO: China Technology has no questions.
19	Anyway, the upshot was that Prof Ma got a telephone	19	MR SHIEH: Right, so that leaves me.
20	call, asking him to attend a meeting with the Chief	20	MR CONNOR: I have no questions.
21	Executive on the morning of Monday, 6 August, and that	21	Cross-examination by MR SHIEH
22	was a meeting that you also attended with Mr Chung?	22	MR SHIEH: Mr Chan, according to your witness statement, you
23	A. Correct.	23	first became aware of emails, or email exchanges,
24	(In English) Excuse me, when you say Mr Chung by	24	between China Technology and the government in early
25	the end of your saying, you say "Mr Chung"?	25	June. Do you remember that? Do you remember saying
	Page 14		Page 16
1	Q. I thought, maybe I was wrong, that the Secretary for	1	that in your witness statement?
2	Transport was also there?	2	A. I remember that.
3	A. Allow me to provide more information here. On	3	Q. You also said in your witness statement that you were
4	6 August	4	subsequently shown the relevant email records?
5	Q. Sorry, he wasn't there. I beg your pardon. He was not	5	A. Correct.
6	there. It was just you, Fred Ma, the Chief Executive,	6	Q. That would be shortly after 5 June, after the press had
7	and the Chief Executive's private secretary.	7	reported the matter?
8	A. (In English) Director of the Chief Executive's Office.	8	A. That's correct, because I also had the responsibility to
9	Q. Yes, that's right. Sorry, that's my fault. Anyway, the	9	seek an understanding into the matter and whether I was
10	upshot of that meeting, as you've already indicated, was	10	amiss in my duties in any way, and whether the handling
11	Prof Ma was told that the government had lost confidence	11	of the matter was appropriate. So I had the
12	in the SCL project senior management team?	12	responsibility to review the matter. Even if this
13	A. Correct.	13	happened in 2017, I thought that it was necessary to get
14	Q. And, as I understand it, from what Prof Ma told us, no	14 15	a full grasp of the entire incident and to see whether it was handled properly, and whether I had any
15 16	consideration was given by government to the roles that	15	it was handled properly, and whether I had any responsibility to take. So I reviewed the matter.
10	each of the individuals concerned played; it was just the whole team was going to go?	10	Q. I was only asking you to confirm your witness statement.
17	A. Allow me to make a simple supplement. The Chief	17	Q. I was only asking you to confirm your witness statement. So thank you for giving us the government LTT, line to
18 19	Executive is doing really senior management, and she	18	take, that is.
19 20	only related personally the views and comments of the	20	Can I ask you to look at the email exchanges, at
20	government. Of course, at our special meetings, and	20	$G_{3/2033}$ . This would be one of the emails that you had
21	also during my discussion with Mr Ma, we discussed the	21	looked at after the media had reported the matter;
		22	correct?
	rationale penind. I hat is why on that day with regard		
23	rationale behind. That is why, on that day, with regard to the reasons behind, it was not necessary to detail		
	to the reasons behind, it was not necessary to detail that or repeat that to Mr Ma.	23 24 25	<ul><li>A. Could you please repeat the question?</li><li>Q. This is one of the emails that you had looked at</li></ul>

4 (Pages 13 to 16)

Commission of Inquiry into the Diaphragm Wall and Platform Slab Construction Works at the Hung Hom Station Extension under the Shatin to Central Link Project

	Page 17		Page 19
1	A. Correct.	1	related to the issue or problem that the media was
2	Q after the media had reported the matter to the group;	2	reporting at the time?
3	correct?	3	A. Well, a thought did cross my mind. I did not rule out
4	A. Correct.	4	any possibility. As I've said, that thought did occur
5	Q. It was an email which invited a joint interview in the	5	to me.
6	presence of the senior representative of the bureau,	6	Q. I'm reading from the transcript of a question put by
7	MTRC, Leighton and China Technology; you saw that?	7	China Technology, who had chosen not to ask you the same
	A. Correct. I saw it.	8	question, so I'm asking this question:
8	Q. You did not see this email at the time it was sent?	9	"This email is less than a page" and this is
9		10	Day 24, page 172. The subject matter of this question
10	A. Yes, correct. Please allow me to elaborate. In our		was one of our witnesses, so I'm doing to you what China
11	mailboxes actually, we have two mailboxes	11 12	÷ •
12	Q. For the public?		Technology did to us:
13	A. One is for anyone who may not have a direct connection		"This email is less than a page. Would you not want
14	with us, and another one is personal. Some colleagues	14	more particulars from Mr Poon regarding what are the
15	in my office would be looking into the communication,	15	particulars of his complaint?"
16	and depending on the request and the content of the	16	A. If the complainant, so-called person making the
17	email the colleague would also do the distribution, and	17	complaint, did have a complaint, I would say that our
18	if necessary the email would be given to me for perusal.	18	colleague contacted him, inviting him to a meeting.
19	If that is about something that can be dealt with by	19	I believe it was 18 September. That person confirmed to
20	other colleagues, then the email would be directed to	20	our colleague and also subsequently through email
21	that colleague.	21	confirmed that the matter had been satisfactorily
22	Q. The media reports in late May/early June related to	22	resolved.
23	incidents of cutting of threaded ends of rebar; you	23	So, if that's a complaint, and since our colleague
24	remember that?	24	also contacted the MTRCL, our colleague would need to
25	A. (In English) Yes.	25	consider that there was the request for an interview,
	Page 18		Page 20
1	Q. When you saw this email on the screen, did it occur to	1	and also after two to three days the matter was
2	you that the interview which China Technology was	2	addressed, and then the parties concerned did not have
3	inviting and the question which, according to this	3	further complaints, would one think that this is not
4	email, related to the interest of the public, had	4	a satisfactory way of addressing the email or complaint?
5	anything to do with the matters reported in the media at	5	Q. I'm not here to answer your question. I was asking
6	that time?	6	whether it occurred to you, whether you would want to
7	A. If we look at this email and the subject matter well,	7	want more particulars from Mr Poon. I'm asking you
8	in terms of the chronology, as you have rightly pointed	8	personally. Would you want
9	out, this is about the media report earlier this year,	9	A. Your question is about the
10	but this report was this email was in about September	10	MR KHAW: To be fair, I don't think Mr Chan was asking
11	2017. Actually, our colleague contacted Mr Poon of	11	Mr Shieh any question.
12	China Technology and the email was referred to the MTRCL	12	CHAIRMAN: Sorry, bear with me just a second.
13	for action, and then later Mr Poon replied to our	13	MR SHIEH: I waited until the translation was completed and
14	colleague that the matter had been addressed, and my	14	I made sure that the transcript ended with a question
15	colleague, that same colleague, also took some action to	15	mark, "Satisfactory way of addressing the email or
16	follow up.	16	complaint?" So maybe it was intended rhetorically.
17	So, in terms of documentary records, we have handled	17	CHAIRMAN: Mr Shieh, sorry, you can assist me here. The
18	that. And as I have said, I thought that I would need	18	secretary received knowledge of this particular email at
19	to take a look at this email, to see if there's	19	a later stage, and are you saying, at that later stage,
20	something I should have done. It's not the line to	20	did he consider it necessary to look into the asserted
20	take. At that point, when I read this, the media report	20	but not stated fact that there was a complaint?
21	was already published, so it's natural that people would	21	MR SHIEH: That was my question, and what the complaint was.
22	try to look at the two things together.	22	CHAIRMAN: What the complaint was, yes.
23 24	Q. Did it occur to you, when your attention was drawn to	23	At that stage, when you saw that, even though the
24 25	this email, that the subject matter of this email	24	matter had been settled, did it occur to you, as
25	uns eman, mai me subject matter of uns eman	25	matter had been settled, did it been to you, as

5 (Pages 17 to 20)

	Page 21		Page 23
1	an individual, that perhaps you should look into this	1	couplers, and whether the works were in any way
2	matter again and see what the foundations of the actual	2	problematic. We thought that we had a full grasp of the
3	complaint were and its details?	3	information, so we had a different consideration when it
4	A. When I got to see this email, that is when the media had	4	comes to whether to see Mr Poon or not.
5	already reported on the incident, and I asked for the	5	Q. You thought you had a full grasp of the information
6	email to be retrieved for me, and I confirmed that there	6	based on what the media had chosen to report?
7	were all sorts of emails and I also knew that the	7	A. That's not what I meant. For the full grasp of
8	interview requested by Mr Poon had been addressed and	8	information that I was talking about, I felt that at
9	the matter referred to in the email had been addressed and	9	that point, whatever had happened, and our understanding
10	And the media, as a matter of fact, had already reported	10	of where the problems lie and the extent of
11	the matter.	11	understanding of those problems.
12	So, as I've said, when I knew that there were	12	Q. I will ask the question again. The allegation of
13	problem with slabs and the platform, I didn't want to	13	Mr Poon was there was massive, organised cutting of
14	miss anything. I would like to have everything	14	threaded rebars; you remember that?
15	ascertained. But we all know what Mr Poon had told the	15	A. Yes.
16	public. If you ask me whether I thought there would be	16	Q. That was an assertion by Mr Poon?
17	a need to review the email, then I would say the answer	17	A. Also, I would invite you to read this statement from the
18	is no at that point. The focus at that point was that	18	government team, and that the government had referred
19	whatever had happened had been reported and the public	19	the matter, the allegations, to law enforcement agencies
20	already knew. So we wanted to check the facts and also	20	for action. So, if there was an allegation of massive
20	to do this from the perspective of public safety and	20	cutting of couplers or rebars, we thought that it would
22	public interest. We do not give too much weight to	21	be better for the law enforcement agencies to follow up
23	disputes between private organisations, unless,	22	the matter, instead of carrying out a civilian
23	of course, if they impinge on public safety.	23	investigation, because when a criminal element was
24	MR SHIEH: So you were aware, from what had been reported in		involved, we had to do that; we had to refer to some
25		25	
	Page 22		Page 24
1	the media	1	LEA.
2	A. Correct.	2	Q. So it did not occur to you as an individual, personally,
3	Q and in the public arena, that Mr Poon has actually	3	to think that the government, for the sake of safety,
4	made allegations in late May/early June?	4	public safety, should itself investigate the allegations
5	A. Correct.	5	of widespread rebar cutting?
6	Q. You were also aware that there was a possibility, put it	6	A. Please allow me to say again. With regard to the
7	no higher than it, that this was related to private	7	allegation of massive cutting of threaded rebars,
8	dispute between some parties?	8	basically we had referred all the information to the
9	A. That's a possibility.	9	police for investigation. In the process of the police
10	Q. My question remains, irrespective of what your	10	investigation, when necessary we would assist the
11	subordinates might have done in 2017, did it occur to	11	police.
12	you, as the most senior official responsible for this	12	So you talked about public safety and public
13	matter in the Hong Kong government did it occur to	13	considerations. Those have been considered.
14	you personally to say, "We want to interview Mr Poon",	14	Q. But the focus was obviously different; do you accept
15	and know exactly what details he had to offer, bearing	15	that?
16	in mind he did offer to meet the government way back in	16	A. I do not agree.
17	September?	17	Q. You don't agree?
18	A. I think you are referring to September 2017, and now we	18	A. The focus is public safety and public interest. The
19	are talking about 2018. In 2018, with all the media	19	most important thing is that we should allow the unit
20	reports which spelt out the fact and we were conducting	20	which would be most effective to do the investigation so
21	an investigation, so was MTRCL. So, look, from this	21	that it can get at the truth.
22	angle, the information was very clear to us. Our	22	MR SHIEH: Thank you very much for assisting us, Mr Chan.
23	position was that whoever made some allegations or	23	WITNESS: Thank you.
24	offered their views, the government team would have to	24	MR KHAW: No re-examination.
25	have a look at issues involving the platform, the	25	CHAIRMAN: Nothing arising?

6 (Pages 21 to 24)

1	Page 25		Page 27
1	COMMISSIONER HANSFORD: No, nothing from me.	1	MR PENNICOTT: Mr Li, good morning.
2	CHAIRMAN: No.	2	A. Good morning.
3	Mr Chan, thank you very much indeed for your	3	Q. As Mr Khaw has indicated, my name is Ian Pennicott, I'm
4	attendance today. You have helped us a great deal.	4	one of the counsel to the Commission, and I have a few
5	Thank you. Your evidence is now complete.	5	questions for you, and indeed there are very few. Thank
6	WITNESS: Thank you.	6	you very much for coming to give evidence to the
7	(The witness was released)	7	Commission this morning.
8	MR KHAW: Our next witness is Mr Li Tze Wai, Ralph.	8	Could I first of all, Mr Li, ask you to be shown
9	Good morning, Mr Li. Just to confirm your full	9	an organisation chart at bundle G9, page 7022. As
10	name, it's Li Tze Wai, Ralph; is that correct?	10	I understand it, Mr Li, this is an organisation chart
11	WITNESS: (Via interpreter) That's correct.	11	for the Railway Development Office as at 13 August this
12	MR LI TZE WAI, RALPH (sworn in Punti)	12	year. We see that from the bottom right-hand corner, if
13	(All answers given via simultaneous interpreter	13	it's not on the screen at the moment.
14	except where otherwise specified)	14	A. Yes, I see that.
15	Examination-in-chief by MR KHAW	15	Q. Then if we could go to the top of the document, please,
16	MR KHAW: May I know whether you would like to give your	16	you will see that at the top of the tree, as it were, is
17	evidence in Cantonese or English?	17	Jonathan Leung; do you see that?
18	A. Cantonese.	18	A. Yes, I see that.
19	Q. For the purpose of this Commission of Inquiry, you have	19	Q. He will be giving evidence fairly shortly.
20	made one witness statement. If we can just take you to	20	Then if one goes to the left of the document, we
21	have a look at bundle G3, page 2088.	21	find "Railway Development Division 1-1", and then we see
22	A. Yes.	22	your name?
23	Q. You can see that this is your witness statement and it	23	A. Yes, that's my name.
24	consists of about 11 pages.	24	Q. And you were you are, rather, currently, the Chief
25	If we can turn to page 2098, it's a statement dated	25	Engineer/Railway Development?
	Page 26		Page 28
1	7 September 2018; do you see that?	1	A. That's correct.
2	A. I can see that.	2	Q. However, that wasn't always the case. Could I ask you,
3	Q. In fact, attached to this witness statement there is	3	please, to go to another organisation chart, at G1775.
4	a summary of key events in relation to the events which	4	It might be G3 but I'm not sure.
5	took place between May 2018 and the end of August 2018,	5	This might in fact be better viewed on the screen,
6	at page 2107. Do you see that?	6	because they can blow it up, Mr Li, but we'll see how we
7	A. I can see that.	7	g0.
8	Q. Would you confirm that the signature that we can see at	8	This is the organisation chart of the Transport
	page 2098 is your signature?	9	Branch of the Transport and Housing Bureau, and as we
9			· ·
10	A. It's my signature.	10	can see, Mr Chan, from whom we have just heard, is at
10 11	Q. Can you also confirm that the contents of your witness	11	can see, Mr Chan, from whom we have just heard, is at the top; do you see that?
10 11 12	Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key	11 12	<ul><li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li><li>A. Yes, I see that.</li></ul>
10 11 12 13	Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge,	11 12 13	<ul><li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li><li>A. Yes, I see that.</li><li>Q. If you come straight down, we see the Permanent</li></ul>
10 11 12 13 14	Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?	11 12 13 14	<ul><li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li><li>A. Yes, I see that.</li><li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li></ul>
10 11 12 13 14 15	<ul><li>Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?</li><li>A. I confirm that.</li></ul>	11 12 13 14 15	<ul><li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li><li>A. Yes, I see that.</li><li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li><li>A. Yes, I see that.</li></ul>
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10 11 12 13 14 15 16 17	<ul><li>Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?</li><li>A. I confirm that.</li><li>Q. Would you confirm that you would adopt the contents of your statement and also the summary of key events as</li></ul>	11 12 13 14 15 16 17	<ul> <li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. I should have said this is at 1 July this year. Then if you go left, right along to the end of the</li> </ul>
10 11 12 13 14 15 16 17 18	<ul> <li>Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?</li> <li>A. I confirm that.</li> <li>Q. Would you confirm that you would adopt the contents of your statement and also the summary of key events as your evidence for the purpose of this Commission?</li> </ul>	11 12 13 14 15 16 17 18	<ul> <li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. I should have said this is at 1 July this year. Then if you go left, right along to the end of the line, you see "DS(T)1 Rebecca Pun"; do you see that?</li> </ul>
10 11 12 13 14 15 16 17 18 19	<ul> <li>Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?</li> <li>A. I confirm that.</li> <li>Q. Would you confirm that you would adopt the contents of your statement and also the summary of key events as your evidence for the purpose of this Commission?</li> <li>A. I can confirm that.</li> </ul>	11 12 13 14 15 16 17 18 19	<ul> <li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. I should have said this is at 1 July this year. Then if you go left, right along to the end of the line, you see "DS(T)1 Rebecca Pun"; do you see that?</li> <li>A. Yes, I see that.</li> </ul>
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10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?</li> <li>A. I confirm that.</li> <li>Q. Would you confirm that you would adopt the contents of your statement and also the summary of key events as your evidence for the purpose of this Commission?</li> <li>A. I can confirm that.</li> <li>MR KHAW: So now Mr Pennicott, acting for the Commission, may have some questions for you. Then lawyers acting</li> </ul>	11 12 13 14 15 16 17 18 19 20 21	<ul> <li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. I should have said this is at 1 July this year. Then if you go left, right along to the end of the line, you see "DS(T)1 Rebecca Pun"; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. Then if you go right, along two steps, you see "PAS(T)7, and that's Mr Peter Mak currently; do you see that?</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. Can you also confirm that the contents of your witness statement and also the contents of the summary of key events are true to the best of your knowledge, information and belief?</li> <li>A. I confirm that.</li> <li>Q. Would you confirm that you would adopt the contents of your statement and also the summary of key events as your evidence for the purpose of this Commission?</li> <li>A. I can confirm that.</li> <li>MR KHAW: So now Mr Pennicott, acting for the Commission, may have some questions for you. Then lawyers acting for other parties may also have some questions for you.</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>can see, Mr Chan, from whom we have just heard, is at the top; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. If you come straight down, we see the Permanent Secretary is Joseph Lai; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. I should have said this is at 1 July this year. Then if you go left, right along to the end of the line, you see "DS(T)1 Rebecca Pun"; do you see that?</li> <li>A. Yes, I see that.</li> <li>Q. Then if you go right, along two steps, you see "PAS(T)7, and that's Mr Peter Mak currently; do you see that?</li> <li>A. I see that.</li> </ul>
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	Page 29		Page 31
1	A. Yes, I see that.	1	commissioned, then I would spend more time on that.
2	Q. My understanding is, Mr Li, if you can confirm this,	2	So it depends on the progress of the projects and
3	that where we see "KY Kam", that was your position	3	whether there are special circumstances, and the
4	between 20 February 2013 and 20 February 2017; is that	4	percentage is different at different periods. That's
5	correct?	5	what I want to supplement.
6	A. That's correct.	6	Q. It would vary from time to time depending upon what
7	Q. I was rather hoping Mr Khaw would have worked that out	7	issues arose?
8	for me, but never mind. I managed it myself.	8	A. That is correct.
9	Just to finish this point, if you go up to where	9	Q. Do you have any particular knowledge of contract 1112?
10	Peter Mak is, at PAS(T)7, my understanding is, Mr Li,	10	A. Yes, I do.
11	that when you were in the AS(T)7A post, for most of the	11	Q. In what respect; in relation to monitoring progress or
12	time it was Raymond Cheng who was in Peter Mak's	12	various aspects of detail? What is your knowledge of
13	position?	13	contract 1112?
14	A. Correct.	14	A. For contract 1112, for me, I need to know what's going
15	Q. Obviously, therefore, what I'm most interested in, so	15	on and what we should do in monitoring the project.
16	far as you're concerned, is the period February 2013 to	16	Contract 1112 is a contract between MTRCL and Leighton.
17	February 2017, when you were in KY Kam's position.	17	Apart from construction, construction of the Hung Hom
18	Now, you tell us, in paragraph 2 of your witness	18	Station Extension, there is also the future parking
19	statement, that during that period your "main duties	19	facility and there are tunnels to link up with other
20	then were to monitor the progress of the SCL project for	20	tunnels in other sections of SCL; I think that's the
21	the section between Sung Wong Toi Station and Hung Hom	21	scope of construction.
22	Station, and to handle the landholding arrangement of	22	In monitoring, we were assisted by some consultants.
23	SCL. Besides, I took care of matters of the KTE project	23	I also know that the contract involved some design work,
24	that required policy support or advice, and assisted in	24	and we would be given some advice from other parties,
25	the administration of the Railways Ordinance Unit."	25	have a look at the progress, the public safety aspects
	Page 30		Page 32
1	So, Mr Li, did you spend most of your time on	1	and the cost.
2	fulfilling your duties in respect of the SCL project?	2	Q. Did you personally have any direct dealings with or
3	How was your time split up?	3	interaction with Pypun, the M&V consultants?
4	A. First, I would like to supplement one thing. I only	4	4 37
5			A. Yes.
	supervised one section of the SCL. I had to be mindful	5	Q. What was the nature of your professional dealings with
6	of the progress of the stations, and when I occupied the	5 6	Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?
7	of the progress of the stations, and when I occupied the position 7A, for SCL there were two parts that I devoted	5 6 7	<ul><li>Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?</li><li>A. As I have said, they have both M&amp;V, monitoring and</li></ul>
7 8	of the progress of the stations, and when I occupied the position 7A, for SCL there were two parts that I devoted most time to. First, archaeological finds we had to	5 6 7 8	<ul><li>Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?</li><li>A. As I have said, they have both M&amp;V, monitoring and verification, and we had meetings with them, we did site</li></ul>
7 8 9	of the progress of the stations, and when I occupied the position 7A, for SCL there were two parts that I devoted most time to. First, archaeological finds we had to deal with a lot of issues and secondly, after	5 6 7 8 9	<ul><li>Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?</li><li>A. As I have said, they have both M&amp;V, monitoring and verification, and we had meetings with them, we did site walks, and we talked to their people. We also</li></ul>
7 8 9 10	of the progress of the stations, and when I occupied the position 7A, for SCL there were two parts that I devoted most time to. First, archaeological finds we had to deal with a lot of issues and secondly, after completion of SCL, the government considered that	5 6 7 8 9 10	<ul><li>Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?</li><li>A. As I have said, they have both M&amp;V, monitoring and verification, and we had meetings with them, we did site walks, and we talked to their people. We also maintained communications through telephone and emails.</li></ul>
7 8 9 10 11	of the progress of the stations, and when I occupied the position 7A, for SCL there were two parts that I devoted most time to. First, archaeological finds we had to deal with a lot of issues and secondly, after completion of SCL, the government considered that perhaps SCL would be managed by MTRCL. So whether it	5 6 7 8 9 10 11	<ul><li>Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?</li><li>A. As I have said, they have both M&amp;V, monitoring and verification, and we had meetings with them, we did site walks, and we talked to their people. We also maintained communications through telephone and emails. For 1112, they have a risk register. They would review</li></ul>
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>of the progress of the stations, and when I occupied the position 7A, for SCL there were two parts that I devoted most time to. First, archaeological finds we had to deal with a lot of issues and secondly, after completion of SCL, the government considered that perhaps SCL would be managed by MTRCL. So whether it was the legal or financial side, I had to spend time on that. Also, I talked about the Kwun Tong Extension project as well.</li> <li>Q. But how much time did you actually devote in your working week to the SCL project?</li> <li>A. Looking at the situation then, it would depend in that particular week whether there were special situations warranting my attention. With regard to SCL or KTE, say for example when there were archaeological finds at Sung Wong Toi Station, it did take up a lot of my time.</li> </ul>	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q. What was the nature of your professional dealings with Pypun? Again, was it in relation to progress?</li> <li>A. As I have said, they have both M&amp;V, monitoring and verification, and we had meetings with them, we did site walks, and we talked to their people. We also maintained communications through telephone and emails. For 1112, they have a risk register. They would review three aspects: programme, cost and safety. They have a risk register for all these. When we wanted to do some site walks, I would ask my colleagues about the updated risk register and areas of concern. They also submitted monthly reports to us. And in respect of contract 1112, I would pay attention to certain areas of concern and ask for a progress report.</li> <li>Q. Right. In your witness statement at paragraph 21, you refer to a site inspection, an on-site inspection, carried out by the M&amp;V consultant after the media reports in May 2018.</li> </ul>

	Page 33		Page 35
1	Beijing, so I was out of town. And on 15 June, it was	1	CHAIRMAN: I don't think
2	just after the completion of my programme, I took a day	2	MR PENNICOTT: Sir, the document you really need to find is
3	off, I took leave, and another colleague was acting in	3	at G2107.1. That's there.
4	my position.	4	CHAIRMAN: Yes.
5	Q. So the answer so my question is no, because you were	5	MR PENNICOTT: That's the same as the previous schedule
6	away and out of town?	6	summary, but this time, I hope, if it's anything like
7	A. I was not in Hong Kong.	7	mine, it's actually got the document references plugged
8	Q. In paragraph 34 of your witness statement you say:	8	into it, as it were.
9	"More recently, on 24 August [this year], MTR	9	COMMISSIONER HANSFORD: That's correct.
10	reported at the meeting of the PSC about the discovery	10	MR PENNICOTT: Because I think the original schedule was
11	of what appeared to be 'honeycomb' structures in the	11	prepared before all the bundle references were known and
12	concrete at the soffit of EWL slab. BD conducted site	12	then government was asked to put in the references,
13	inspection on 29 August 2018. MTR provided Highways on	13	which they have done.
14	29 August 2018 with copies of three non-conformance	14	So it's started at G2107.1 and onwards that's really
15	reports"	15	necessary for present purposes.
16	Mr Li, did you attend the site inspection on	16	I wasn't planning to go through that. It was just
17	29 August?	17	really a reference point. It seems to me this is not
18	A. Yes, I was there. I attended the inspection.	18	a criticism of Mr Li Mr Li is being used as a vehicle
19	Q. Right. So you witnessed what was picked up and is shown	19	for getting that correspondence in, getting it in
20	in the three non-conformance reports that you've	20	chronological order so one can see how the events
21	referred to in your statement?	21	unfolded from day to day, and I wasn't planning to go
22	A. Yes.	22	through it. It was really just to get the reference
23	Q. Is it the case that those matters, to some extent, have	23	point for you.
24	been dealt with and are continuing to be dealt with,	24	Sir, with that, I have no more questions. I don't
25	that is the remedying of the non-conformances that were	25	know whether anybody else does.
	Page 34		Page 36
1	picked up?	1	CHAIRMAN: Any questions from Leighton?
2	A. They are being dealt with.	2	MR SHIEH: No.
3	Q. Yes. Okay.	3	CHAIRMAN: Mr Connor?
4	The schedule attached to your witness statement or	4	MR CONNOR: No, sir.
5	summary of events that's attached to your witness	5	CHAIRMAN: From the MTR?
6	statement that Mr Khaw mentioned a short while ago, as	6	MR BOULDING: Yes, sir, I have one or two questions.
7	I understand it, has been prepared by you based upon	7	Cross-examination by MR BOULDING
8	various documents between, as Mr Khaw said, May and	8	Q. Good morning, Mr Li.
9	August of this year?	9	A. Good morning.
10	A. Correct.	10	Q. You were asked by Mr Pennicott about Pypun; do you
11	CHAIRMAN: Sorry, whereabouts is it again?	11 12	remember being questioned about Pypun?
12	MR PENNICOTT: Sorry, the summary of events? CHAIRMAN: Yes.	12 13	<ul><li>A. Yes.</li><li>Q. And you told Mr Pennicott that you were involved in site</li></ul>
13 14	MR PENNICOTT: It's in G3, I think starting at 2099.	13 14	Q. And you told Mir Pennicott that you were involved in site walks on the SCL1112 contract; do you remember that?
14	COMMISSIONER HANSFORD: We haven't got it here.	14 15	A. Yes, I did.
15	CHAIRMAN: No, we haven't got it here.	15 16	Q. And you said that you had been involved in those site
17	MR PENNICOTT: So you are in WS2, are you, in the witness		walks; is that correct?
18	statement?	18	A. Yes.
19	COMMISSIONER HANSFORD: How many sheets is it?	19	Q. How many site walks can you remember that you made,
20	MR PENNICOTT: It's not that many. I need to find G3.	20	approximately?
21	MR KHAW: Nine pages.	21	A. Site walks were conducted once every three months.
22	MR PENNICOTT: Yes, that's right.	22	Basically, I would be involved unless I have some other
	Yes, it starts at 2099 and runs through to	23	urgent task to attend to. In that case, I would ask my
23			
23 24	CHAIRMAN: I have it, yes.	24	colleagues, maybe my senior engineer, to take my place.

Commission of Inquiry into the Diaphragm Wall and Platform Slab Construction Works at the Hung Hom Station Extension under the Shatin to Central Link Project

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1	walks, I would be part of it.	1	take part in any site walks.
2	Q. Just for the record, what was your senior engineer's	2	Q. So your first site walk, personally, was in 2017?
3	name?	3	A. I would say around about 2017, yes.
4	A. There were a number of colleagues assisting me: Johnny	4	Q. Do you know who, from your department, would have been
5	Chu; another, Vincent Chu, who assisted me in attending	5	involved in the site walks before 2017? Can you put
6	the site walks. Not both of them; depending on the	6	a name on that, please?
7	time, one of them would go.	7	A. As I said in my witness statement, during my period,
8	Q. And we've heard evidence that site walks would take,	8	originally there was a Chief Engineer Mr Chou who was
9	what, about an hour and a half. Does that accord with	9	responsible for NSL. But whether he took part or not,
10	your recollection?	10	I wouldn't have the information here.
11	A. Maybe I should supplement a point first. First of all,	11	MR BOULDING: Okay. Thank you very much, Mr Li. No further
12	I would like to say something about the arrangement for	12	questions.
13	a site walk. The MTRCL colleague would give us	13	MR TO: No questions from China Technology.
14	a briefing, by the use of PowerPoint first, pointing out	14	CHAIRMAN: Peter?
15	any special issues about the progress. We would be	15	COMMISSIONER HANSFORD: Yes, I have one question, Mr Li.
16	given a briefing first and I would ask some questions,	16	You referred to the risk register, when you were
17	and I would also ask Pypun questions.	17	telling us about your interaction with the M&V
18	Then we would spend more than half an hour on this	18	consultant.
19	part, and then we would proceed to the site. If they	19	Do you know how that risk register was compiled by
20	told us there was something we needed to pay attention	20	Pypun?
21	to in terms of progress, then we would call at more	21	A. First, the MTR would require its contractor to supply
22	locations. My recollection would be that it should be	22	risk registers. Different contractors had to submit
23	more than one and a half hours, because the briefing	23	different risk registers for different contracts. So
24	alone would take more than half an hour, and the walk	24	there were many, many risk registers. According to the
25	itself would last for more than an hour.	25	agreement, Pypun also had to come up with a risk
	Page 38		Page 40
1	Q. Right. I'm right in thinking that if you or Pypun had	1	register.
2	any concerns, you would raise those concerns with the	2	In order to facilitate it to compile these risk
3	MTR; is that correct?	3	registers, they would do some screening, and they would
4	A. First, we would have to look at the PowerPoint of the	4	include risks that were of more concern to them. Now,
5	MTR on that particular day, to see whether they raised	5	in the agreement, we would ask them to read these
6	any issues. Of course, before that, we would talk to	6	documents, and then the MTRCL would also have to do its
7	Pypun the route for the inspection and our areas of	7	part. At the Hung Hom site office, two workstations
8	concern. Also, it would depend on what the MTR reported	8	were assigned, so Pypun could go there according to
9	on that particular day. Then we would go to the site to	9	their own schedule to seek information, because many
10	look at the areas of concern.	10	contracts were involved, and then they would identify
11	Q. Right. I'm right in thinking, am I not, that one of the	11	a big number of risks. These risk items would be put
12	matters of concern would be whether or not the works	12	into a risk matrix.
13	were on programme; is that correct?	13	According to the probability and severity, and so
14	A. Well, you can put it that way, but let me add, the	14	a matrix would be formed for low, medium or high risks,
15	so-called works, I would take it to mean contract 1112,	15	and then they would be in different colours. Say, if
16	because we were only talking about site walks on	16	you consider probability and severity, if it is both
17	contract 1112 and we should not be talking about the	17	high, then it would be regarded as a high risk. So they
18	entire SCL.	18	select the risk and they would form a risk register.
19	Q. I'm talking about contract 1112 as well.	19	The risk register should be updated every three
20	You say you made the walks every three months. Can	20	months. When updating has been done, there would be
21	you recall whether or not you would have visited the	21	a report to the RDO, and that is the views of Pypun.
22	1112 contract for a site walk in the period	22	Then RDO staff would endorse the risk register. Then it
23	approximately August 2015 to December 2015?	23	would concentrate on programme, cost and safety, and we
24	A. I took up the post in February 2017. I became the Chief	24	would follow up by monitoring or making recommendations.
25	Engineer in February 2017, and before that I did not	25	But the most important thing is monitoring, and we

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1	would pay particular attention to these risks, and Pypun	1	understand that you have given one witness statement.
2	would be able to take follow-up actions. They would	2	If we can all turn to bundle G3, page 2075. That's your
3	have an exchange with MTR, and also, through programme	3	witness statement, as we can see from the first page,
4	monitoring meetings, they would discuss programme with	4	and it consists of several pages. It goes all the way
5	MTRCL and also cost.	5	to I believe it has altogether 13 pages 2087; do
6	So there is a division of labour.	6	you see that?
7	COMMISSIONER HANSFORD: Thank you. That's very helpful	7	A. Yes, I can see that.
8	Just one further point: who actually analysed the	8	Q. It's a statement dated 7 September 2018. Do you confirm
9	severity of the risk? Who decided which risks were	9	that you put your signature at the end of this witness
10	high, medium or low risks? Was that Pypun?	10	statement?
11	A. Yes, Pypun. As they said, they had different teams:	11	A. I confirm that.
12	a programme team, a cost team and a safety team. They	12	Q. And you confirm that the contents of this witness
13	had three teams and three team leaders. They would act	13	statement are true to your knowledge, information and
14	according to their professional opinion, and then they	14	belief?
15	would make the assessment and through the risk matrix	15	A. I can confirm that.
16	they would put a final ranking of high, medium and low	16	Q. Do you confirm that you adopt this witness statement as
17	risk.	17	your evidence for the purpose of this Inquiry?
18	COMMISSIONER HANSFORD: Thank you. That's useful.	18	A. I confirm that.
19	CHAIRMAN: Anything arising from that?	19	Q. Perhaps just to make Mr Pennicott happy, and also just
20	MR SHIEH: No.	20	to show that I am aware of some sort of organisation
21	CHAIRMAN: Good. Thank you very much.	21	chart as well, if I can just refer you to G9/7022.
22	MR KHAW: No re-examination.	22	MR PENNICOTT: There are two.
23	CHAIRMAN: Thank you. Mr Li, thank you very much indeed.	23	MR KHAW: We understand that that is the organisation chart
24	You've been of considerable assistance and your evidence	24	in relation to the Railway Development Group as at
25	is now completed, so you can go now. Thank you very	25	13 August this year. Your name appears at the top of
	Da 42		
	Page 42		Page 44
1	much.	1	Page 44 this chart; can you see that?
1 2	much. WITNESS: Thank you.	1 2	this chart; can you see that? A. I can see that.
	much. WITNESS: Thank you. (The witness was released)		<ul><li>this chart; can you see that?</li><li>A. I can see that.</li><li>Q. Can you tell me, when did you start to hold this</li></ul>
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1	MR KHAW: I have no further questions for you. Mr Pennicott	1	the hard copy or look at it on the screen that this
2	will have the right to ask you some questions first, and	2	is a document that is I think prepared by Pypun, and
3	then lawyers acting for other parties may ask you some	3	it's a site visit monitoring report; do you see that?
4	questions. The Chairman and Professor meanwhile may	4	A. Yes.
5	have some questions for you. So please remain seated.	5	Q. As I understand it, this document and we'll see a few
6	WITNESS: I understand.	6	of them in a minute forms part of the monthly report
7	Examination by MR PENNICOTT	7	that Pypun would submit to government?
8	MR PENNICOTT: Good morning, Mr Leung. As Mr Khaw said, my		A. Correct.
9	name is Ian Pennicott, I'm one of the counsel to the	9	Q. If we go back, just so that we've got that point, to
10	Commission, and I have a few questions for you. Thank	10	G10/8035, that's the front sheet of the content of the
11	you very much for coming along to give evidence to the	11	report, the monthly report. We can see this is
12	Commission this morning.	12	number 29.
13	I'm glad that Mr Khaw can take a hint, but there is	13	Then if you go over the page to 8036, there's
14	just one other organisation chart that I'd like to look	14	a series of appendices listed, and D is the "Site visit
15	at. Could we please look at H7/2657. If you're looking	15	schedule and site visit monitoring report"; do you see
16	at the screen, Mr Leung, this is the organisation chart	16	that?
17	of the BO team in the Railway Development Office of	17	A. Yes. These are the appendices.
18	Highways Department from 10 January 2012; do you see	18	Q. Indeed.
19	that?	19	If we can go back then, please, to 8053, which is
20	A. I can see that.	20	the site visit monitoring report, we can see that you
21	Q. My understanding is, if I've got this right, Mr Leung,	21	were there, together with two colleagues, five
22	that from the second I'm reading from paragraph 1 of	22	representatives from Pypun and three from MTR; do you
23	your witness statement but you don't need to look at	23	see that?
24	it from 2 July 2013 to 30 November 2015, you were the	24	A. Correct.
25	Chief Engineer, that's CE. So if we look on the	25	Q. It says in the introduction:
	Page 46		Page 48
1	left-hand side of this chart, under the Highways	1	"Joe Tsang of MTR gave a briefing on contract 1112's
2	Department, we have "Government Engineer" and then	2	latest progress of work."
3	underneath "Chief Engineer", and that was your position,	3	I think as Mr Li just described, is this right,
4	as I say, from July 2013 to the end of November 2015; is	4	Mr Leung, before you went out on your site visit, MTR
5	that right?	5	would give a briefing so that everybody knew where they
6	A. Chief Engineer, yes, that's correct.	6	were and perhaps what was of interest to look at? Is
7	Q. Right. Mr Leung, as I understand it, as I think you say	7	that right?
8	in paragraph 12 of your witness statement:	8	A Comment Itle a fast Essential subor such as such as the the
9			A. Correct. It's a fact. Every time when we went to the
10	"In addition to the three-tier monitoring	9	site or before we went to the site, or at the point when
10	mechanism", which you have dealt with in your statement,	9 10	site or before we went to the site, or at the point when we selected a site for visit, we will look at the
11	mechanism", which you have dealt with in your statement, "Highways has also appointed a monitoring and	9 10 11	site or before we went to the site, or at the point when we selected a site for visit, we will look at the matters or issues of importance, areas of concern, and
11 12	mechanism", which you have dealt with in your statement, "Highways has also appointed a monitoring and verification consultant, [that is] Pypun, to assist	9 10 11 12	site or before we went to the site, or at the point when we selected a site for visit, we will look at the matters or issues of importance, areas of concern, and then we would concentrate on those areas, because there
11 12 13	mechanism", which you have dealt with in your statement, "Highways has also appointed a monitoring and verification consultant, [that is] Pypun, to assist Highways in monitoring the works of MTR."	9 10 11 12 13	site or before we went to the site, or at the point when we selected a site for visit, we will look at the matters or issues of importance, areas of concern, and then we would concentrate on those areas, because there are more than 100 contracts for SCL, and half of them
11 12 13 14	mechanism", which you have dealt with in your statement, "Highways has also appointed a monitoring and verification consultant, [that is] Pypun, to assist Highways in monitoring the works of MTR." As I understand it, when you were the Chief Engineer	9 10 11 12 13 14	site or before we went to the site, or at the point when we selected a site for visit, we will look at the matters or issues of importance, areas of concern, and then we would concentrate on those areas, because there are more than 100 contracts for SCL, and half of them were worth more than \$50 million, so we needed to focus.
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11 12 13 14 15 16	<ul> <li>mechanism", which you have dealt with in your statement,</li> <li>"Highways has also appointed a monitoring and verification consultant, [that is] Pypun, to assist</li> <li>Highways in monitoring the works of MTR."</li> <li>As I understand it, when you were the Chief Engineer</li> <li>in the period that we've just identified, you liaised</li> <li>with Pypun, and you did accompany them on their</li> </ul>	9 10 11 12 13 14 15 16	<ul> <li>site or before we went to the site, or at the point when we selected a site for visit, we will look at the matters or issues of importance, areas of concern, and then we would concentrate on those areas, because there are more than 100 contracts for SCL, and half of them were worth more than \$50 million, so we needed to focus. We needed to inform ourselves of the matters of concern. Then every time before we went, they would tell us that</li> </ul>
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1	would like to stay for a longer time on some locations.	1	June."
2	So it would be for one or two hours, but not all the	2	Then one sees a photograph to the right of that; do
3	time would be spent on one single location.	3	you see that, Mr Leung?
4	Q. Understood.	4	A. Yes, I can see that.
5	A. Thank you.	5	Q. And presumably somebody from Pypun would be taking
6	Q. We can see from this report that you went to the freight	6	photographs as you were going around, for the purposes
7	yard, you were told some information about the pre-bored	7	of putting them in these reports; is that right?
8	H-piles, you went to the stabling sidings, you went to	8	A. Correct.
9	the Cheong Wan Road Viaduct, the North Approach Tunnel,	9	Q. Right.
10	the South Approach Tunnel, Hung Hom Station.	10	A. Let me add: for D-wall panels, it's on the critical
11	Mr Leung, given what's recorded in this report, the	11	path. They were slow at first in the construction of
12	different areas, is it a correct assumption that you	12	D-walls, so that was one of our concerns.
13	would have visited these areas?	13	Q. Right. Then if we could go on to the next report,
14	A. The site for contract 1112 was big, and here you were	14	that's at 8119. We've now reached 24 September 2015,
15	talking about all the relevant elements under that	15	and again, Mr Leung, you were present on this site
16	contract. Every time when we conducted a visit, we	16	visit, again with representatives of Pypun and the MTR?
17	might not be able to reach all those locations. It was	17	A. Correct.
18	a big site. We have more than an hour. It would not be	18	Q. If you could be shown, please, page 8121, towards the
19	possible to concentrate on each and every detail. So	19	bottom half of the page there's a reference to "Area C".
20	every time we would focus on one particular area of	20	The third item:
21	concern and we would look at that in greater detail.	21	"Construction of the EWL slab was in progress
22	Q. Yes, I thought that was the position, because from your	22	(gridlines 26 to 31 and 36.5 to 38.5 were complete."
23	description of one to two hours let's take the	23	And we know that's as C1-3, C2-1 and C2-5.
24	maximum, two hours it would be pretty difficult to go	24	On these visits, Mr Leung, was there sort of free
25	around and see, unless you were running, all of these	25	discussion; you were able to ask the MTR questions,
	Page 50		Page 52
1	areas on one visit. It just wasn't possible, was it?	1	Pypun were able to ask the MTR questions? Was there the
2	A. You can put it like that.	2	ability to do that?
3	Q. Right. Then if we could move on. If we go, please, to	3	A. During a site visit or site walk, we would be with MTRCL
4	page 8077, we see some matters in this report, which is	4	people and we would ask questions along the way. Very
5	the 5 June report, so three months later. Again, you	5	often, we would focus on issues raised at other
6	are present with representatives of the RDO	6	meetings. In this case, at that time, the major issue
7	A. Yes.	7	would be underpinning and also the CLP tunnel; both were
8	Q Pypun and MTR.	8	critical elements at that time. We would ask questions
9	A. Yes. Correct.	9	about those. Previously, we would also ask about
10	Q. We see some matters that are a bit more familiar to us	10	D-walls, because initial progress was slow, but they
11	on this one. So, at number 2.0, "Work in progress" at	11 12	managed to pick up afterwards. Q. Mr Leung, as far as I can tell, the next site visit was
12 13	8078, it says: "Overall, 277 out of 282 D-wall panels have been	12	held on 7 December 2015, so three months on, by which
13	cast."	13	time you had taken up your new position and therefore
15	Then "Area A":	15	you didn't attend, I think, any further site visits.
16	D-wall panels in area A had been completed in	16	I think this was your last one. Can you confirm that?
17	April 2015.	17	A. Correct.
18	Concreting of the EWL slab in area was about	18	Q. Can I ask you, please, to look at a couple of
19	50 per cent complete."	19	photographs. Could I ask you, please, to be shown
20	Then there's similar references in relation to	20	B17/24248.
21	area B and the Coliseum.	21	This is a photograph of 22 September, Mr Leung,
22	Then over the page at 8079, at the top of the page,	22	taken two days before your site visit. If we could just
23	"Area C":	23	look at the next photograph and then I will ask you
24	"The remaining 5 D-wall panels (out of 146) in	24	a question. There's another one, the same date
25	area C with scheduled for completion by the end of	25	sorry, and one more photograph, please, 250 do you

13 (Pages 49 to 52)

	Page 53		Page 55
1	see that?	1	Q. Okay. Could I then ask you to look at another
2	If we can go back one photograph. My understanding	2	photograph. Let's try E5/1279.
3	is that first of all, do you have any recollection of	3	This is a photograph taken on 10 September 2015.
4	seeing what we can see in this photograph at the time,	4	These, I should say, for anybody who is interested, come
5	not necessarily exactly the same but similar items of	5	from the Fang Sheung photographs in bundle E5. We can
6	work?	6	see that the caption is "Scrap metal after replacing
7	A. I cannot recall that. When we did the inspection, we	7	damaged couplers".
8	wouldn't be so clear. We have to look at the stage of	8	Do you ever remember seeing situations like this on
9	concreting for the whole area, whether the timetable	9	your site visit in September 2015, Mr Leung?
10	could be met, and the problems/issues related to that	10	A. I should not have seen this because, if I had seen
11	progress. We wouldn't be looking at the length of	11	something like this in front of me, I would have asked
12	rebars or the location of couplers. Those we would not	12	MTR what this was. Therefore, my recollection is
13	be concerned about.	13	I shouldn't have seen something like this.
14	Q. You see, my understanding is, Mr Leung, that this	14	Q. All right. Let's try the next photograph, 1280.
15	photograph may show the trimming down of the top of	15	Similar.
16	a diaphragm wall. Is that something that means anything	16	A. I would have had the same reaction. If I had seen
10	to you?	17	something like this, I would have asked MTRC what that
18	A. Well, I can say something about this. Contract 1112 was	18	was and why they were here. Based on my knowledge now,
19	different from other contracts. It was a project on	19	I would definitely have asked questions, if I had seen
20	an existing podium and they had to take down a lot of	20	them.
20	things. For example, the existing platforms, existing	20	Q. All right. 1282.
21	structures would have to be demolished and some of the	22	Sorry, can we just go back to that last photograph.
22	columns would have to be taken out. So it's not	22	I should have said I appreciate this is on
23	surprising to see that they were taking down something,	23	16 December, so this is taken after you had changed
25	but I wouldn't know what they were working at.	25	position, but anyway. We can see what the photograph
25	Page 54	23	Page 56
1	Q. It's not the sort of thing you would raise a query about	1	shows.
2	with MTRC, if you saw something similar to this?	2	A. (In English) Yes, this is after.
3	A. No. No.	3	COMMISSIONER HANSFORD: Can I just go back to Mr Leung's
4	COMMISSIONER HANSFORD: Sorry, can I just take it one step		answer to the last question, because what the transcript
5	further: in the briefings that you would receive prior	5	says is, if you had seen something like this, you would
6	to the site walk, was the breaking down at the top of	6	have asked questions. Based on your knowledge now, you
7	the concrete wall mentioned?	7	would definitely have asked questions. But what about
8	A. Never. It was never mentioned.	8	based on your knowledge at the time, would you have
9	COMMISSIONER HANSFORD: Thank you.	9	asked questions?
10	MR PENNICOTT: Can I ask you, please, to look at another	10	A. Yes. If I had seen something so strange, in a normal
11	photograph. B19/25595.	11	site, I would have had questions asked.
12	We can see on this photograph, I believe, at least	12	COMMISSIONER HANSFORD: Okay. Thank you.
13			MR PENNICOTT: 1282 and 1283. Now, again, this is again,
	one assumes the caption is right in the top right-hand	13	
14	one assumes the caption is right in the top right-hand corner, this was taken on 26 September 2015, so two days	13 14	I think we are in April 2016, so I accept, Mr Leung,
14 15			
	corner, this was taken on 26 September 2015, so two days	14	I think we are in April 2016, so I accept, Mr Leung,
15	corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that	14 15	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but
15 16	corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that	14 15 16	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these
15 16 17	corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that is bay C1-4.	14 15 16 17	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these scrapped couplers back in 2015?
15 16 17 18	corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that is bay C1-4. Again, is this something that you would have seen	14 15 16 17 18	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these scrapped couplers back in 2015? A. I did not see them.
15 16 17 18 19	corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that is bay C1-4. Again, is this something that you would have seen and remembered at the time, Mr Leung?	14 15 16 17 18 19	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these scrapped couplers back in 2015? A. I did not see them. Q. All right.
15 16 17 18 19 20	<ul> <li>corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that is bay C1-4.</li> <li>Again, is this something that you would have seen and remembered at the time, Mr Leung?</li> <li>A. I can't recall seeing this, but, as I said, if there</li> </ul>	14 15 16 17 18 19 20	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these scrapped couplers back in 2015? A. I did not see them. Q. All right. Now a completely different topic, Mr Leung. In
15 16 17 18 19 20 21	<ul> <li>corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that is bay C1-4.</li> <li>Again, is this something that you would have seen and remembered at the time, Mr Leung?</li> <li>A. I can't recall seeing this, but, as I said, if there were particular situations, the MTRCL should have</li> </ul>	14 15 16 17 18 19 20 21	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these scrapped couplers back in 2015? A. I did not see them. Q. All right. Now a completely different topic, Mr Leung. In paragraphs 31 to 35 of your witness statement, you deal
15 16 17 18 19 20 21 22	<ul> <li>corner, this was taken on 26 September 2015, so two days after your site visit. This is said to show that through-bars were adopted in this particular area, that is bay C1-4.</li> <li>Again, is this something that you would have seen and remembered at the time, Mr Leung?</li> <li>A. I can't recall seeing this, but, as I said, if there were particular situations, the MTRCL should have alerted us to it, meaning that there had been changes.</li> </ul>	14 15 16 17 18 19 20 21 22	I think we are in April 2016, so I accept, Mr Leung, after you had ceased to be the Chief Engineer but again, did you see these skips full of all these scrapped couplers back in 2015? A. I did not see them. Q. All right. Now a completely different topic, Mr Leung. In paragraphs 31 to 35 of your witness statement, you deal with you have a heading and you deal with "incidents

	Page 57		Page 59
1	Q. You say in paragraph 32:	1	diaphragm wall will be submitted to BD for approval in
2	"On 14 May 2015, I received an email from the	2	accordance with the agreed timetable between MTR and
3	representative of BO team, which informed me that	3	Leighton".
4	several site irregularity activities were reported to	4	Do you see that?
5	the BO team. By way of a follow-up email on 18 May	5	A. I can see that.
6	2015, the BO team sent me a summary of the	6	Q. Just so I've understood the position, Mr Leung, are you
7	non-conformity items. Three of the items were	7	saying that the government was prepared to accept the
8	subsequently escalated to the PSC for discussion"	8	position as set out on this slide with regard to changes
9	And that's the project supervisory committee,	9	to the working drawings?
10	supervision committee?	10	A. The MTR proposed the follow-up action like this on that
11	A. That's correct.	11	day. It had already been done. That is why the MTR
12	Q. " namely: (i) the construction of capping beam/portal	12	proposed this for the sake of follow-up. In fact, they
13	frame which commenced before the completion of works for	13	had to make an assessment/an analysis and submit that to
14	the diaphragm wall; (ii)" which is the one I am	14	BD, and they had to state what they would propose to do,
15	interested in "the construction of diaphragm wall	15	and all that should have been checked by MTR before
16	which deviated from the accepted design" which you	16	works could proceed, and there should be a reasonable
17	have called the unauthorised deviation "and (iii) the	17	timetable for submission to BD.
18	unauthorised cutting of existing steel beam supporting	18	But if you want more details, you can refer to my
19	the concourse"	19	colleagues in the Buildings Department.
20	Then over the page, at paragraph 33, you say:	20	Q. All right. But, as I understand it, this obviously
20	"MTR was requested to address the non-conformity	20	the unauthorised deviation had been picked up, and we
22	items at a meeting on 27 May 2015."	21	know that steps were taken to address that, in terms of
23	As I say, I'm only interested for present purposes	22	the preparation of reports and so forth that were
23	in number (2), Mr Leung, as to which you say:	23	subsequently submitted to government. But is this slide
25	"As to the unauthorised deviation, MTR agreed that	25	expressing the position going forward, as it were, what
25	As to the unautionsed deviation, with agreed that	25	expressing the position going forward, as it were, what
5	Dago 58		Paga 60
1	Page 58	1	Page 60
1	all proposed changes to the working drawings for the	1	you expected in the future to happen?
2	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant	2	you expected in the future to happen? A. In fact, this stated what the MTR proposed to do. So
2 3	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they	2 3	<ul><li>you expected in the future to happen?</li><li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all</li></ul>
2 3 4	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within]	2 3 4	<ul><li>you expected in the future to happen?</li><li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR,</li></ul>
2 3 4 5	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable."	2 3 4 5	<ul><li>you expected in the future to happen?</li><li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it</li></ul>
2 3 4 5 6	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable." Then you say this:	2 3 4 5 6	<ul><li>you expected in the future to happen?</li><li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it up with the BD.</li></ul>
2 3 4 5 6 7	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable." Then you say this: "A copy of the PowerPoint slides prepared by MTR for	2 3 4 5 6 7	<ul><li>you expected in the future to happen?</li><li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it up with the BD.</li><li>Q. Right. You expected the MTR and Leighton to come up</li></ul>
2 3 4 5 6 7 8	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable." Then you say this: "A copy of the PowerPoint slides prepared by MTR for the aforesaid meeting is at annex LMH-10."	2 3 4 5 6 7 8	<ul><li>you expected in the future to happen?</li><li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it up with the BD.</li><li>Q. Right. You expected the MTR and Leighton to come up with that timetable?</li></ul>
2 3 4 5 6 7 8 9	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable." Then you say this: "A copy of the PowerPoint slides prepared by MTR for the aforesaid meeting is at annex LMH-10." Could we just very quickly look at those sides,	2 3 4 5 6 7 8 9	<ul> <li>you expected in the future to happen?</li> <li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it up with the BD.</li> <li>Q. Right. You expected the MTR and Leighton to come up with that timetable?</li> <li>A. Yes.</li> </ul>
2 3 4 5 6 7 8 9 10	all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable." Then you say this: "A copy of the PowerPoint slides prepared by MTR for the aforesaid meeting is at annex LMH-10." Could we just very quickly look at those sides, please, which as you have indicated are G11/8596. Do	2 3 4 5 6 7 8 9 10	<ul> <li>you expected in the future to happen?</li> <li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it up with the BD.</li> <li>Q. Right. You expected the MTR and Leighton to come up with that timetable?</li> <li>A. Yes.</li> <li>MR PENNICOTT: Thank you very much, Mr Leung. I have no</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>all proposed changes to the working drawings for the diaphragm wall had to be approved by MTR before relevant works could be allowed to proceed on site; and they would be submitted to BD for approval with [or within] an agreed timetable." Then you say this:</li> <li>"A copy of the PowerPoint slides prepared by MTR for the aforesaid meeting is at annex LMH-10." Could we just very quickly look at those sides, please, which as you have indicated are G11/8596. Do you have that?</li> <li>A. (In English) Yes.</li> <li>Q. If you go, please, to page 8600. This is a diagrammatic presentation, Mr Leung, of</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>you expected in the future to happen?</li> <li>A. In fact, this stated what the MTR proposed to do. So you are correct. As they said in point (1), all proposed changes must be checked and approved by MTR, and there should be a reasonable timetable for taking it up with the BD.</li> <li>Q. Right. You expected the MTR and Leighton to come up with that timetable?</li> <li>A. Yes.</li> <li>MR PENNICOTT: Thank you very much, Mr Leung. I have no further questions for you.</li> <li>CHAIRMAN: Thank you.</li> <li>MR SO: No questions from China Technology.</li> <li>MR SHIEH: No questions from Leighton.</li> </ul>
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1	Page 61		Page 63
1	which were held before the site walks, did anyone from	1	Mr McCrae on the videolink from London.
2	MTR tell you or your colleagues about the breaking down	2	CHAIRMAN: Yes.
3	of the top of the diaphragm wall. Do you remember that?	3	MR PENNICOTT: So I think we are going to be sitting
4	A. They never said anything like that.	4	probably until my estimate of my time with Mr McCrae
5	Q. May I just confirm whether anyone actually told you, on	5	is probably about an hour to an hour and a half, so we
6	government, or your department, that the top of the	6	are certainly going to be going through until 5.30 at
7	diaphragm wall would be knocked down during the site	7	the earliest. Of course I don't know whether anybody
8	walks?	8	else will have any questions for him. So we are
9	A. It was not until July this year.	9	definitely going to finish late this evening, on any
10	Q. Did anyone also mention anything about I mean during	10	view.
11	the site walks the intended use of through-bars	11	CHAIRMAN: Of course, yes.
12	instead of couplers for the construction regarding the	12	MR PENNICOTT: So perhaps an extended lunch hour today is
13	connection between the diaphragm walls and the platform	13	not such a bad thing, certainly from my perspective.
14	slabs?	14	CHAIRMAN: No. Good. Then, as far as Mr Lim is concerned
15	A. Never.	15	from BOSA, is he 2.00 or 2.15?
16	MR KHAW: I have no further questions.	16	MR PENNICOTT: We have asked him to get here for 2.00, but
17	CHAIRMAN: Thank you.	17	with a view to starting at 2.15. I confess that the
18	COMMISSIONER HANSFORD: I have one question.	18	legal team I have not met him at all.
19	Mr Leung, Mr Pennicott took you to paragraphs 32 and	19	CHAIRMAN: I see. All right.
20	33 of your witness statement, G2083 and G2084. On	20	MR PENNICOTT: I'm certainly not proposing to either, but
21	G2083, paragraph 32, you helpfully set out the three	21	obviously we will let you know when he's here, but
22	items. Mr Pennicott asked you about item (ii), the	22	I think 2.15 anyway, I think we should start, if that's
23	unauthorised deviation; yes? Do you remember?	23	convenient.
24	A. Yes.	24	CHAIRMAN: Good. We will adjourn until 2.15.
25	COMMISSIONER HANSFORD: I would just like to ask you	25	MR SO: Sir, I do apologise. There is a short application
	Page 62		Page 64
1	something quickly about item (i), the capping	1	on the part of China Technology.
2	beam/portal frame incident, and then in paragraph 33(1),	2	MR PENNICOTT: Sir, I'm not allowing this application to
3	over the page, you say and you are talking here about	3	take place at this stage. We are in the middle of
4	tracking submissions to BD and you say "Leighton would	4	witnesses, the government witnesses and then interposing
5	appoint a senior engineer with BD experience to keep	5	two witnesses this afternoon. I'm not in a position to
6	track [of] all BD submission[s]".	5 6	two witnesses this afternoon. I'm not in a position to deal with this application, although I have been given
6 7	track [of] all BD submission[s]". Do you know if they did that and do you know who it	5 6 7	two witnesses this afternoon. I'm not in a position to deal with this application, although I have been given short notice of it. So could I respectfully request
6 7 8	<pre>track [of] all BD submission[s]".    Do you know if they did that and do you know who it was?</pre>	5 6 7 8	two witnesses this afternoon. I'm not in a position to deal with this application, although I have been given short notice of it. So could I respectfully request that this application be deferred?
6 7 8 9	<ul><li>track [of] all BD submission[s]".</li><li>Do you know if they did that and do you know who it was?</li><li>A. I did not follow up that after this incident. The BO</li></ul>	5 6 7 8 9	two witnesses this afternoon. I'm not in a position to deal with this application, although I have been given short notice of it. So could I respectfully request that this application be deferred? There's another additional reason, in my submission,
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	Page 65		Page 67
1	until the time sir and Mr Chairman see fit.	1	application to be heard on the issue, I don't know,
2	CHAIRMAN: Yes, thank you. I think there's no room for	2	because maybe not the parties sitting in the main
3	an application today. We have seen the written	3	well, but those sitting to the side.
4	application. We've had no opportunity really to do more	4	MR PENNICOTT: Yes. As I say, those who may be interested
5	than just fast-read through it.	5	may want to reflect upon whether or not the application
6	MR SO: I understand.	6	should be also heard in camera.
7	CHAIRMAN: And we are in no way in a position to digest what	7	CHAIRMAN: Yes. Thank you.
8	is intended. So I think it may be better if there is	8	2.15.
9	a liaison between yourself and Mr Pennicott as to what	9	(12.38 pm)
10	may be an appropriate day for the application.	10	(The luncheon adjournment)
11	MR PENNICOTT: Sir, so far as I can see, just to allay the	11	(2.17 pm)
12	fears of other parties here, it does appear to be	12	MR PENNICOTT: Good afternoon, sir. The Commission proposes
13	an application that only affects the government and the	13	now to call a witness. This is Mr Paulino Lim.
14	Commission, and obviously China Technology, but no other	14	MR PAULINO LIM (affirmed)
15	party, as far as I can see, would have any involvement	15	Examination by MR PENNICOTT
16	in the application.	16	Q. First of all, can you state your full name, please?
17	MR SO: That's the same position of China Technology.	17	A. My full name is Paulino Lim.
18	MR PENNICOTT: But again it's a question of having to think	18	Q. Right. Can I ask you this, Mr Lim: are you sometimes
19	that one through.	19	known as "Paul Lam"?
20	CHAIRMAN: Yes, I'd like to think that through.	20	A. Yes, sir.
21	MR PENNICOTT: Indeed. That was my initial reaction but one	21	Q. We'll see why I needed to ask that in a moment.
22	can see whether the other parties want to listen is	22	Mr Lim, as I will call you, if you could be shown,
23	a matter for them.	23	please, bundle H25/44825.
24	MR BOULDING: Sir, can I just make an observation. I am	24	A. Yes.
25	heartened to hear from two of my learned friends that	25	Q. My understanding, Mr Lim, is that this is a witness
	Page 66		Page 68
1	it's not going to affect me, MTR. I personally would	1	statement that you gave to the Buildings Department at
2	like to take a view of my own on that, and I wonder	2	an interview which took place on 27 November 2018. Is
3	whether you would consider no need to decide now	3	that correct?
4	making an order that we be copied in with presumably	4	A. Yes, that's correct.
5	some sort of skeleton argument that I assume	5	
6	Mr Pennicott has seen and it may well be you've seen it	-	Q. We can see that you have signed the statement, I think
	will remine our has seen and it may well be you've seen it	6	just about on every single page, not just at the end,
7	as well.		
7 8		6	just about on every single page, not just at the end,
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	Page 69		Page 71
1	Wai, which acted as a backup initially whilst we were	1	A. Yes.
2	setting up the fabrication on site.	2	Q. Were those items in fact delivered to
3	My responsibility ranged from obviously the seller's	3	A. Yes, they were delivered.
4	manager for BOSA Technology and I was involved in the	4	Q. Right.
5	sales of this contract and the operations management of	5	A. May I add?
6	the Hung Hom fabrication yard on site.	6	Q. Yes, of course.
7	Q. Right. I also understand that you had a role in certain	7	A. In this particular job site, we have five production
8	training sessions?	8	lines and two automated cutting machines, and each of
9	A. Yes, that's correct, sir.	9	the production lines consists of three machines. The
10	Q. Right. We will come to those in a moment.	10	first, which you can see is the cutting machine,
11	Are you familiar with the sub-contract between	11	automatic cutting machine, and then we've got the
12	I don't need the nitty-gritty details, but generally	12	crimping machine, followed by the third, which is the
13	speaking, are you generally familiar with the	13	threading machine. And we have five of these production
14	sub-contract between BOSA and Leighton?	14	lines which we use for manufacturing of the threads or
15	A. Mainly the quantity, the bill of quantity, in terms of	15	threading.
16	how many couplers that we were to supply for this	16	Q. Okay. I think you've explained this point already but
17	project. The nitty-gritty details, I obviously cannot	17	in your witness statement, at question and answer 4, the
18	remember, I'm sorry.	18	question was:
19	Q. Okay. If you go to page or will be shown page C6/4915.	19	"When did you start working for the site? Are you
20	We can see here, this is appendix 2 to the sub-contract,	20	employed as a full-time site staff?"
21	headed, "Pricing schedule bills of	21	You say:
22	quantities/schedule of rates"; do you see that?	22	"Full-time, when the coupler yard was commenced in
23	A. Yes, I can see that.	23	October 2013."
24	Q. This is the document that you're most familiar with	24	As I understand it, that is when, as it were, BOSA's
25	within the sub-contract; is that right?	25	fabrication or coupler yard was established, in October
		20	
	Page 70		Page 72
1	A. Yes.	1	2013; is that right?
2	Q. My understanding, Mr Lim, you can see from a previous		A. Yes. I believe it would have been around about there
3	page, is that if you be shown, please, page 4881,	3	that we commissioned the actual fabrication yard at the
4	that's the third schedule to the sub-contract. We see	4	inside of the Hung Hom Station, yes.
5	the sub-contract price there and we see that this is	5	Q. Right. We know that the first diaphragm wall, EM99, was
6	a re-measurable sub-contract price "based on assumed	6	constructed, and therefore the rebar cages had to be
7	quantities and will be valued out at the rates as	7	constructed, by 1 August 2013. So how did BOSA operate
8	stipulated in appendix 2", which is the appendix we have	8	in those first few months before your fabrication yard
9	just looked at.	9	was set up in October?
10	"The sub-contract price includes [a sum] for	10	A. I can only vaguely remember the date. I'm sorry about
11	mobilisation costs."	11	that; it's been a little while.
12	As I understand, Mr Lim, this is a re-measurable	12	We had our own factory fabrication yard located in
13	contract, so at the end of the day, BOSA will be paid	13	Tin Shui Wai. So prior to the completion and
14	for the quantities of materials and so forth that they	14	commissioning of the site at Hung Hom Station, all the
15	supplied?	15	threading was carried out in our fabrication yard in
16	A. That's correct.	16	Tin Shui Wai. I'm not sure about the August date, but
17	Q. Okay. On that same page, towards the bottom and	17	I assume it will be correct if you have checked it
18	we'll come back to this point in a moment we see,	18	because I haven't.
19	under the heading "Period for completion", there's	19	Q. Right. So, for the first few months, on that
20	a heading, "Delivery of equipment"; do you see that,	20	assumption, you were operating out of your Tin Shui Wai
21	Mr Lim?	21	facility, threading the rebar there, and presumably
22	A. Yes.	22	delivering the couplers from there to the site as they
23	Q. You were to supply or deliver, rather an automated	23	were required?
	crimping machine and two automated threading machines	24	A. Yes, that's correct. Once we have completed fabrication
24	erinping machine and two automated uncading machines	25	and based on the purchase order issued from Leighton,

	Page 73		Page 75
1	then we will arrange truck to send the bars back to the	1	towards the beginning of the time in which the diaphragm
2	job site for use.	2	wall cages were being fabricated. And so, if you can
3	Q. All right. I mentioned just a moment ago, and you	3	recall, were those sessions very much geared to fixing
4	agreed, that you were responsible for training BOSA	4	the couplers so far as the diaphragm wall cages were
5	staff, MTR engineers and contractor's staff. And in	5	concerned?
6	answer 19 in your witness statement, that is at	6	A. As part of the run-down of the training itself,
7	page 44830, you say:	7	I usually go through the entire QA/QC quality assurance
8	"Training to rebar fixers in Cantonese with respect	8	menu, including the quality supervision plan, and that
9	to coupler installation and to site engineers/inspectors	9	basically covers from identifying what's a type 1 and
10	of Leighton and MTR with respect to coupler inspection.	10	what's a type 2 coupler, and we also discuss type A and
11	Leighton and MTR staff should inspect threaded rebar	11	type B in there as well, the type of installations that
12	production and filled the form Quality Control &	12	are required, how to obviously, for steel fixers, we
13	Inspection Record on Thread Preparation After	13	focus on how to install the couplers, and we also talk
14	Inspection. The form Independent Checklist for On-site	14	a little bit about coupler in terms of the traceability.
15	Assembly of BOSA Seisplice Couplers in any Location	15	When I say "traceability" I mean the batch numbers that
16	should also be filled. These two forms should be	16	are imprinted on the couplers itself, because as BD's
17	included in the logbook kept on site. BOSA may have	17	imposed condition, if you have ordered such and such
18	some attendance lists of the training and if I find	18	amount of couplers, you will need to perform a certain
19	them, I will send to BD."	19	amounts of tests, and those tests are actually
20	Do you see that?	20	stipulated in the BD-imposed condition or the so-called
21	A. Yes, sir.	21	engineering manual.
22	Q. As I understand it, Mr Lim, you did find some training	22	Of course we do go through the quality supervision
23	attendance lists and you did send them to BD?	23	plan. The quality supervision plan is an enhanced site
24	A. Yes. I was followed up for the records.	24	supervision, so it's more of an audit/checking system
25	Q. Yes. If we can go to H26, please, at 45187. There	25	for both supplier, like BOSA Technology, ourselves, and
	Page 74		Page 76
1	should be an email there that you sent four days ago to	1	for supervision for assembly at the job site.
2	BD, do you see that, on 13 December?	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	Q. What about the keeping of records?
3	A. Yes, I can see that.	3	A. Yes, there are two forms that need to be completed,
4	Q. If we go over the page to let's do it in	4	appendix C and appendix B, I would recall. Those are
5 6	chronological order 45190, that's a training	5	the true forms that once filled in need to be kent
n	-44 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	5	the two forms that, once filled in, need to be kept
	attendance record of 27 August 2013; is that right?	6	on site, in the logbook, for later submission to BD.
7	A. Yes, that's correct.	6 7	on site, in the logbook, for later submission to BD. Q. Right.
7 8	<ul><li>A. Yes, that's correct.</li><li>Q. We can see that that was to Intrafor's engineer, welder,</li></ul>	6 7 8	on site, in the logbook, for later submission to BD. Q. Right. COMMISSIONER HANSFORD: Mr Lim, can I just ask, on this
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	Page 77		Page 79
1	of his evidence he was shown I mean, Leighton have	1	responsible for the training, and so forth.
2	disclosed two of these sheets in any event they are	2	Then, over the page, you say this, about four lines
3	attached, I think, to Mr Lumb's report Kobe Wong	3	up in answer 5:
4	confirmed that although he didn't sign, he did attend.	4	"I liaised with Kelvin Harman"
5	COMMISSIONER HANSFORD: Okay.	5	Now, Kelvin/Kevin it's Kevin.
6	MR PENNICOTT: That's my recollection from Mr Wong's	6	A. Sorry, Kevin.
7	evidence.	7	Q. " the quality manager of Leighton about how to
8	COMMISSIONER HANSFORD: That's helpful.	8	improve the coupler checking forms."
9	MR PENNICOTT: As to the others, I can't offer a view.	9	Now, do you confirm that you obviously had
10	The reason, Mr Lim I've just spotted it	10	a recollection of that when you made this statement?
11	I asked you about "were you also known as Paul Lam" is	11	A. Kevin is basically the person who have a copy of the
12	that we can see on both of the sheets that we've just	12	quality supervision plan, and he had, at the time, as
13	looked at, at 45189 and 190, the name "Paul Lam"	13	I recall, looked at the checklist, check form, assembly
14	appears.	14	of couplers at the job site. That particular form, he
15	A. Yes.	15	basically, you know, asked for copies of it in
16	Q. But it was you?	16	a spreadsheet, because he wanted to modify it being
17	A. Yes, it was me.	17	a bit more specific to MTR and Leighton, in terms of
18	COMMISSIONER HANSFORD: Actually, I think your name appear	18	definitions such as who is the RSE and who is the RC.
19	twice here, both as the trainer and as one of the	19	So I recall basically that was the discussion we had on
20	attendees.	20	that particular form.
21	A. They probably you know, the circulation came to me	21	Q. Okay. You go on to say you often dealt with Edward Mok
22	and I thought I would just write my name on it.	22	for processing coupler purchase orders.
23	COMMISSIONER HANSFORD: That's fine.	23	A. Yes. Edward very frequently comes to our job site
24	A. Not noticing that my name was actually printed on the	24	container office. He is, you could say, the principal
25	top, probably, at that time.	25	person that we deal with in terms of receiving purchase
	Page 78		Page 80
1	MR PENNICOTT: Okay. So those were a couple of training	1	orders. Purchase orders do include both couplers and
2	sessions.	2	for threaded bar to be used for the job site.
3	Just tell us how they came about. Were you asked to	3	Q. All right. If we could just go back to the training
4	do them by Leighton or did it happen in some other way?	4	attendance records. Could we please now go to
5	A. With these training records, because they're	5	H26/45193. Again, I think this is a document you've
6	categorised you can see at the top right-hand corner,	6	seen before. It's attached to Mr Lumb's report.
7	TR-001, et cetera, and 002 so I assume these sessions	7	As I understand it, this is another training record
8	were organised by Leighton, but I can't fully remember.	8	document, dated 1 November 2014.
9	With MTR being involved, generally speaking it would	9	A. Yes.
10	have to be something that's organised by Leighton.	10	Q. I don't know if you're able to confirm this but our
11	Q. We see from another page, 45192, at the bottom, there's	11	understanding is that the trainees listed there, the
12	a note which I believe, and you can confirm, was written	12	three gentlemen, were from Fang Sheung?
13	by Kevin Harman; is that right, Mr Lim?	13	A. I was told they were from Fang Sheung.
14	A. I can't remember, I'm sorry. It does say "Kevin"	14	Q. Right. You were told at the time?
15	though.	15	A. Yes.
16	Q. Right. Do you recall having	16	Q. I see. And the training, it says here:
17	A. No, I cannot remember that.	17	"Teach steel fixer how to install coupler to
18	Q. You can't?	18	threaded bar. Advice tolerance allowance."
19	A. I certainly cannot remember. It's been too long.	19	What do the words "Advice tolerance allowance" mean,
20	Q. The reason I ask that, Mr Lim, is that in your witness	20	Mr Lim?
21	statement, at answer 5 on page 44826 we will be	21	A. Under the quality supervision plan we have
22	coming back to the training things in a moment in the	22	an appendix D. That appendix D has a table which
23	context of training you say the question was, "Please	23	details the tolerance that we permit for threaded bars.
24	briefly describe your roles and responsibilities for the	24	I believe it will be under you probably call them 4,
25	site works", and then you go on to say you were	25	if you've got that appendix in front of you, appendix D

20 (Pages 77 to 80)

1	Page 81		Page 83
1	under the QSP, and we do have a little note sorry,	1	Q. That's right.
2	can I just be taken to that page?	2	A. Okay.
3	Q. Of course. Yes, the QSP is there.	3	Q. You appear to have been there on this occasion?
4	A. Yes.	4	A. I was in our fabrication yard, preparing for the
5	COMMISSIONER HANSFORD: Have you got the page number?	5	sampling of the rebar for testing, so I was there.
6	A. I think it says H44853 and 854.	6	Q. So you were assisting those who were coming to do the
7	MR PENNICOTT: Yes.	7	audit, as I understand it?
8	A. It's the tolerance that we permit for the threaded bars	8	A. That is correct, yes.
9	that we supply, and it does clearly state the tolerance,	9	Q. We can see your name on page 4798 as being the BOSA
10	which is a positive tolerance, that we permit for the	10	representative.
11	threaded end bars. And on the bottom we do actually	11	A. Yes, I see it's here, but I can't recall this form.
12	make a bit of a note about how we programme our CNC	12	Q. Just going through to page 4800 a rather nice
12	programmable machines to always to produce positive	12	photograph of the fabrication yard at the top and
13	tolerance to ensure the idea is to ensure that the		
14	two bars can have a butt-to-butt connection.	14	then what I wanted to ask you about is page 4803.
		15	There are two photographs there, Mr Lim, which
16	COMMISSIONER HANSFORD: Sorry, Mr Lim, can you just explain		are the description says, "2nd step control
17	that butt-to-butt connection and how important that is?	17	crimping process", and then the next one is "Crimped
18	A. Under normal circumstances, when your thread length is	18	rebar".
19	ideally perfect, in terms of its length, "T", if you	19	Can you explain to us what crimping is and what
20	look at the table	20	purpose it serves?
21	COMMISSIONER HANSFORD: Yes.	21	A. Crimping is one of the crucial steps that we would
22	A when the two ends meet, after you've tightened the	22	perform for our type 2 coupler. The crimping process is
23	two rebar inside of the coupler, they will be touching	23	actual strength-hardening procedure that we have for our
24	on the end, and that's something we refer to as	24	type 2 coupler. So that's basically strength-hardening
25	butt-to-butt.	25	the rebar before we thread produce the threads.
	Page 82		Page 84
1	COMMISSIONER HANSFORD: I'll ask it at this point rather	1	Q. Right. And that's done by one of the automated machines
2	than later: and how important is it for them to be	2	that we saw reference to in the sub-contract just
3	butt-to-butt? What does that do?	3	a moment ago?
			a moment ago?
4	A. When you are if you because some of the	4	A. Yes, that's correct.
4 5	A. When you are if you because some of the requirement for a type 1 coupler is you there's two	4 5	A. Yes, that's correct.
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5 6	requirement for a type 1 coupler is you there's two testing required. The first one is an elongation test,	5	<ul><li>A. Yes, that's correct.</li><li>Q. And I imagine we're looking at one in this photograph, are we?</li></ul>
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Page 85		Page 87
that page, "4th step manual 'go/no go' test".	1	like a pencil. It's quite sharp. And when the bar goes
	2	into the coupler, literally all the threads are actually
is?	3	inside the coupler, and that particular type of rebar,
A. The "go/no go" gauge is used to test the tolerance of	4	or I should say coupler system, do require calibrated
	5	torque to tighten the splice. But for parallel thread
	6	you do not need a calibrated torque. You just need to
	7	tighten it with a typical pipe wrench.
-		COMMISSIONER HANSFORD: So all the couplers you supplied
		here were the parallel thread type?
	10	A. That's correct.
		CHAIRMAN: Could I ask you: were all the couplers ductility
		couplers?
		A. We also sold approximately figure's yet to be
		confirmed approximately 65,000 type 1 couplers as
e e		well for this project, but the majority was in fact
		type 2.
		CHAIRMAN: And type 1 are the ductility?
		A. Type 2 is the ductility.
		CHAIRMAN: Sorry.
		-
		MR PENNICOTT: Mr Lim and Chairman, if we go to H26/45194 - Mr Lim, following your witness statement to the
_		
		Buildings Department, not only did you supply them with
		the training attendance records that we had a look at
		just a moment ago, you also supplied them with some
	25	records about how many couplers have been supplied on
Page 86		Page 88
and the threading machine also takes approximately	1	this job; is that right?
25 seconds or thereabouts to produce one thread as well.	2	A. That's correct.
So the three machines are all lined up together on one	3	Q. If we actually just go to the last page, to 45200, we
production line.	4	can pick up the total numbers, and my understanding is
COMMISSIONER HANSFORD: So you only crimp the end that's	5	that the 324,369, that's the ductility couplers?
going to be threaded?	6	A. That's correct.
A. That's correct.	7	Q. And the figure of 60,368 is the non-ductile?
CHAIRMAN: And you don't crimp on site, as such; you crimp	8	A. That's correct.
before you bring or deliver the bars to site?	9	Q. Then we have the total there as well.
A. The crimping process is part of our production line	10	COMMISSIONER HANSFORD: On these numbers, these were the
cycle that we do, so once before we do the threading,	11	actual numbers supplied, or was this estimated?
we would have crimped the bar first, and then once it's	12	A. This information was filtered out of our invoicing
threaded we either install a coupler on to that end or	13	system that we obviously have already invoiced Leighton.
use a PVC cap to protect the threaded bar.	14	COMMISSIONER HANSFORD: So these ones were supplied and pair
CHAIRMAN: And while we are on this, there's a torque	15	for by Leighton?
_	16	A. Yes, that's correct.
such a machine?	17	COMMISSIONER HANSFORD: Thank you.
A. No. Our there are two types of threads that you	18	MR PENNICOTT: Sir, we have of course got the samples here
could say. The first one is our type, which is parallel	19	that I think were originally supplied kindly by BOSA.
	20	If there's anything you would like to ask Mr Lim about
unead. while paramet unead, basicanty each unead is	-	
thread. With parallel thread, basically each thread is uniform. So if you screw in X amount of threads inside	21	them, I'm happy to
uniform. So if you screw in X amount of threads inside	21 22	them, I'm happy to CHAIRMAN: Yes, just show us again, please. Apart from
uniform. So if you screw in X amount of threads inside of a coupler, you can literally calculate the amount of	22	CHAIRMAN: Yes, just show us again, please. Apart from
uniform. So if you screw in X amount of threads inside		
	<ul> <li>that page, "4th step manual 'go/no go' test". Can you just explain to us what the "go/no go" test is?</li> <li>A. The "go/no go" gauge is used to test the tolerance of a thread being produced from our threading machine. So the "go" gauge should fully screw into the threaded bar, whereas the "no go" should not fully screw into the threaded bar. So this is a tolerance criteria.</li> <li>COMMISSIONER HANSFORD: So you have two of these rings, on is a "go" and one is a "no go"?</li> <li>A. That's correct.</li> <li>COMMISSIONER HANSFORD: And the "go" threads right in and the "no go" won't thread?</li> <li>A. That's right.</li> <li>COMMISSIONER HANSFORD: Thank you.</li> <li>CHAIRMAN: Sorry, can I just ask as well we've spoken about crimping where was the crimping done?</li> <li>A. The second step after we have square-cut the rebar the second step is we crimp the bar.</li> <li>CHAIRMAN: At both ends?</li> <li>A. No. We do one end first, because it's quite it's synchronised. The cutting of one rebar takes about 20 or 30 seconds, and at that time you would roll over to the second machine, which is a crimping machine, and that also takes approximately the same amount of time,</li> <li>Page 86 and the threading machine also takes approximately 25 seconds or thereabouts to produce one thread as well. So the three machines are all lined up together on one production line.</li> <li>COMMISSIONER HANSFORD: So you only crimp the end that's going to be threaded?</li> <li>A. Tha's correct.</li> <li>CHAIRMAN: And you don't crimp on site, as such; you crimp before you bring or deliver the bars to site?</li> <li>A. The crimping process is part of our production line cycle that we do, so once before we do the threading, we would have crimped the bar first, and then once it's threaded we either install a coupler on to that end or use a PVC cap to protect the threade bar.</li> <li>CHAIRMAN: And while we are on this, there's a torque machine. Do your couplers require the employment of such a machine?</li> </ul>	that page, "4th step manual 'go/no go' test". 1 Can you just explain to us what the "go/no go" test 2 is? 3 A. The "go/no go" gauge is used to test the tolerance of 4 a thread being produced from our threading machine. So 5 the "go" gauge should fully screw into the threaded bar, 6 whereas the "no go" should not fully screw into the 7 threaded bar. So this is a tolerance criteria. 8 COMMISSIONER HANSFORD: So you have two of these rings, one 9 is a "go" and one is a "no go"? 10 A. That's correct. 111 COMMISSIONER HANSFORD: And the "go" threads right in and 12 the "no go" won't thread? 13 A. That's right. 14 COMMISSIONER HANSFORD: Thank you. 15 CHAIRMAN: Sorry, can I just ask as well we've spoken 16 about crimping where was the crimping done? 17 A. The second step after we have square-cut the rebar 18 the second step is we crimp the bar. 19 CHAIRMAN: At both ends? 20 A. No. We do one end first, because it's quite it's 21 synchronised. The cutting of one rebar takes about 22 20 or 30 seconds, and at that time you would roll over 23 to the second machine, which is a crimping machine, and 24 that also takes approximately the same amount of time, 25 Page 86 and the threading machine also takes approximately 2 So the three machines are all lined up together on one 3 production line. 4 COMMISSIONER HANSFORD: So you only crimp the end that's 5 going to be threaded? 6 A. That's correct. 7 CHAIRMAN: And you don't crimp on site, as such; you crimp 8 before you bring or deliver the bars to site? 9 A. The crimping process is part of our production line 10 cycle that we do, so once before we do the threading, 11 we would have crimped the bar first, and then once it's 12 threaded we either install a coupler on that end or 13 use a PVC cap to protect the threaded bar. 7 CHAIRMAN: And while we are on this, there's a torque 15 machine. Do your couplers require the employment of 16 such a machine? 17

	Page 89		Page 91
1	A. Okay. Visually, it's quite easy to identify and	1	acceptable to convert a type B coupler into a type A,
2	distinguish between our type 1 coupler and our type 2	2	although I think the question really should be directed
3	coupler, because a type 2 coupler has two distinct rings	3	at the threaded rebar, not the coupler.
4	on the coupler itself, on the top as well as the bottom.	4	A. Yes, on the threaded rebar.
5	For the thread itself, you can also see because	5	Q. Right. So let's rephrase the question: technically,
6	the requirement from BD is not very high for type 1	6	would it be acceptable if type B threaded rebar is
7	coupler, our strength-hardening procedure is quite	7	changed to type A threaded rebar by cutting the thread
8	simple on the type 1. So, as part of our manufacturing	8	portion on site?
9	process, the ribs that we usually use for bonding with	9	Your answer was:
10	concrete is peeled away. So we have this minimum of	10	"Technically, possible on condition of perfect
11	10mm circle peeling trace as distinction from our	11	cutting. But, this change is highly not recommended.
12	type 2, which we will have to provide a minimum of 5mm	12	After the media report of alleged cutting of threaded
13	crimping trace. So there's a distinct difference	13	rebars, John, Leighton's project director"
14	between the two threads as well.	14	That was Jon Kitching, was it?
15	Other than the coupler itself, we also adopt	15	A. I believe so, yes.
16	a two-colour system. The type 1 coupler we use,	16	Q. " once asked me about the same question."
17	everything is in blue, from the tags to the PVC cap that	17	So this is really your position, as I understand it,
18	protects the coupler as well as the threaded bar, all	18	Mr Lim: technically, it's possible, perfect cutting, but
19	being blue. Then for the type 2 we have chosen red	19	you do not recommend it; indeed you highly do not
20	colour, so everything from the PVC cap to the tags will	20	recommend it?
21	all be red. So in terms of identification purposes, it	21	A. I saw the Apple Daily demonstrated that they can cut the
22	should be quite reasonably easy to distinguish between	22	long thread into a short thread, which they did, because
23	our type 1 and type 2.	23	they cut it into a two-thread length and sent that off
24	COMMISSIONER HANSFORD: Can they be substituted, though? I	f 24	to the lab to pull, and we all saw that on the news.
25	a sorry, non-ductile is type	25	After seeing that, okay, it could be possible to cut the
	Page 90		Page 92
1	A. 1.	1	bar from a type A type B to a type A, but of course
2	COMMISSIONER HANSFORD: Type 1. So if a type 1 is specified	2	we obviously don't recommend for that.
3	but a type 2 is used instead, is that acceptable?	3	COMMISSIONER HANSFORD: Why do you highly recommend that
4	A. That is not the proper system. You can, however,	4	that doesn't happen?
5	install a type 1 thread into a type 2 coupler, by	5	A. In case if they're not cut into the right length,
6	mistake, I suppose, but following our QA/QC assurance	6	particularly if you perhaps saw off too much, or not
7	manual, you should not and you cannot install a type 1	7	accurately, then also the entrance to the engagement
8	thread into a type 2 coupler, because the end result is	8	to the coupler, we're not sure whether that can still be
9	you've provided a weakened mechanical splice, because	9	properly screwed in.
10	the requirement for a type 1 and a type 2 is different.	10	COMMISSIONER HANSFORD: Yes.
11	COMMISSIONER HANSFORD: So, therefore, in every location	11	MR PENNICOTT: Right.
12	where a coupler is specified, one needs to make sure it	12	MR SHIEH: Could I just raise a question of clarification,
13	both has the correct coupler and the correct threaded	13	because I am not sure whether it's a transcription point
14	bar?	14	or whether Mr Pennicott did intend to say at [draft]
15	A. Yes, that's correct.	15	page 93 of the transcript, line 10, Mr Pennicott said,
16	COMMISSIONER HANSFORD: Okay.	16	at line 9:
17	MR PENNICOTT: Just to if I've understood those last few	17	" type B, that's the longer one, as I understand
18	questions and answers properly, if we go to your witness	18	it, type 2 or type B"
19	statement, at H25/44831, at question 23, Mr Lim, the	19	As we have heard from this witness, type $1/2$ is a different hind of distinction from $A/B$ so Livet with
20	question was this:	20	different kind of distinction from A/B, so I just wish
21 22	"Technically, would it be acceptable if type B	21 22	to clarify whether MR PENNICOTT: Yes. It's A and B.
22 23	coupler" type B, that's the longer one, as I understand it, type 2 or type B "is changed to	22	MR PENNICOTT: Yes. It's A and B. MR SHIEH: So you are moving on from type 1/2 distinction to
23 24	type A coupler by cutting thread portion on site?"	23	type A/B distinction?
24	In other words, you were being asked: would it be	24	MR PENNICOTT: Indeed. Yes. Apologies for that.
25	in other words, you were being asked. would it be	25	mariante or r. macoa. 105. Apologios foi mai.

	Page 93		Page 95
1	CHAIRMAN: So, basically, then, while you would not	1	direction you are looking at from that angle. So the
2	recommend it and while it would reduce, for example,	2	angle obviously makes it sometimes easier to identify
3	tensile strength, it is possible	3	whether it's been crimped or not crimped.
4	A. Yes, it is.	4	MR PENNICOTT: Finally from me, Mr Lim, could you please be
5	CHAIRMAN: if you get the knack, to cut one and still	5	shown a photograph which we are all familiar with,
6	insert it into	6	D1/228.
7	A. Yes, it would seem so, yes.	7	Can we please blow up, as far as we possibly can
8	CHAIRMAN: You've never done it yourself?	8	keep going, keep going, keep going, keep going; right,
9	A. No	9	that's fine Mr Lim, are you able, by carefully
10	CHAIRMAN: By that, I didn't mean on site somewhere, I meant	10	perhaps counting the number of threads and so forth, to
11	obviously you have never done it by way of testing or	11	tell us whether this is a type A or a type B threaded
12	anything like that?	12	rebar?
13	A. No, because our automatic cutting machine has a very	13	A. By just visually counting the number of threads from
14	powerful grip. If you were to put that bar into a grip	14	this photo, I think there will be about 13 threads in
15	halfway through, the thread would be crimped as well as	15	this one here. 13 threads would be likely to be
16	it's being gripped. So there's a very high possibility	16	a diameter 50 rebar, and 13 threads is a normal type A
17	if you have done it through using our cutting machine,	17	thread.
18	in our normal production line machines, that has a very	18	COMMISSIONER HANSFORD: Type A?
19	high chance of damaging the actual thread itself.	19	A. Yes.
20	CHAIRMAN: Okay.	20	MR PENNICOTT: Right. Would your answer be different if the
21	A. So it would be quicker if we just redo the thread.	21	conclusion had been reached that this bar had been cut?
22	MR PENNICOTT: All right. Could I ask you, please, to be	22	A. I cannot tell from here. I'm not too sure whether this
23	shown B17/14261.	23	is after it's been cut.
24	Mr Lim, again, this is probably a document you will	24	Q. I was asking you to make the assumption that it had been
25	not have seen before. It's what's called	25	cut.
	Page 94		Page 96
1	a non-conformance report, produced, as you can see, on	1	A. Oh, it had been cut? I couldn't tell. I'm sorry,
2	4 September 2018. I'd just like you to look at	2	I couldn't tell.
3	a photograph which I hope is at 14268. It's the	3	MR PENNICOTT: That's all right. I just thought we would
4	photograph number 4, NCR258; do you see that, bottom	4	ask since we've got you here.
5	right? We can see perhaps blow that one photograph up.	5	Sir, thank you very much. I have no further
6	Are you able to tell, Mr Lim, whether that first bar	6	questions. I don't know whether anybody else has.
7	that we can see, whether it's crimped or not?	7	Questioning by THE COMMISSIONERS
8	A. Can you zoom it up a little bit bigger?	8	CHAIRMAN: Thank you. I just want to ask were you there
9	Q. Sure.	9	between about August 2015 and late September 2015,
10	A. Yes, that bar has been crimped.	10	on site, I think?
11	Q. Thank you very much.	11	A. I usually always go to site, especially in the morning,
12	CHAIRMAN: How can you tell? It just goes narrower or?	12	because I usually always check on
13	A. Yes. If you see the cross-sectional rib going back 1,	13	CHAIRMAN: And can I ask you, how much business is going or
14	2, 3 along the bar	14	in the sense of people coming and saying, "This bar is
15	CHAIRMAN: Yes.	15	no good" or "The threads have broken or been damaged"?
16	A you can see that actually is a lot more evident. And	16	Is there quite a lot of toing and froing, replacing?
17	then if you look back one step, you can see that bar has	17	A. No, we didn't have many. In fact, so far, I would say,
18	already been crimped because it's slightly flattened.	18	for that project, we might have supplied something in
19	That particular rib has been compressed.	19	the vicinity of 650,000 threads, and we did receive one
20	CHAIRMAN: I'm with you, the same as the second one back?		complaint from Intrafor, where they have detected
21	A. Yes, exactly right.	21	20-something threads which appear to be out of our
22	CHAIRMAN: You can see the same thing.	22	tolerance. That would have been it. I haven't actually
23	A. And that bar following that is a lot more evident	23	received any other complaint.
24 25	because of the direction of that longitudinal rib, we'll call it, it's almost a lot more visible because of the	24 25	CHAIRMAN: All right. Did anybody ever come to you with a rebar where the threads had been cut off and ask for a

	Page 97		Page 99
1	replacement?	1	have one or two threads exposed after the coupler is
2	A. Cut off, as in	2	connected.
3	CHAIRMAN: Yes.	3	If the threads are exposed, how can it be
4	A. No, because it's quite simple, if they wanted additional	4	butt-to-butt?
5	threads to be done, they just have to give us a purchase	5	A. That's a very good question. If you refer back to
6	order and we would immediately follow the purchase order	6	page 44854 in our design, when we are manufacturing
7	to thread in accordance with that order itself.	7	threads, we always programme our machine to produce
8	CHAIRMAN: Thank you.	8	an extra 1 to 2mm on the actual length of our thread.
9	COMMISSIONER HANSFORD: Sorry, I had two questions but I now	9	We just wanted to make sure that when the two ends abut
10	have three. A purchase order presumably could only come	10	inside, connected inside of a coupler and tighten, that
11	from Leighton; is that correct?	11	they are actually butt-to-butt.
12	A. A lot of engineers from Leighton would come into our	12	So if in a worst case scenario we were to have both
13	container with a preliminary order for what they need	13	ends with a maximum tolerance for example the
14	for that particular area they are working on, and we	14	diameter 40 rebar which says tolerance of 4mm, the 4mm
15	usually pass it straight to Edward Mok for approval.	15	basically is one thread, equal to one thread, so if both
16	Sometimes we may get a verbal go-ahead, and then we will	16	ends has a maximum tolerance of one thread, after you
17	follow that up with a proper, fully filled-in form	17	have connected the two ends together, you will have
18	afterwards.	18	a chance of seeing two threads exposed.
19	COMMISSIONER HANSFORD: But you couldn't have a purchase	19	COMMISSIONER HANSFORD: I understand that, but in that
20	order from, say for example, Fang Sheung?	20	bottom of those three diagrams, you show the coupler
21	A. I can't recall receiving order from Fang Sheung	21	being of length 2T, and the threads being T?
22	directly. No, I cannot. They would have to be approved	22	A. Yes.
23	by Leighton.	23	COMMISSIONER HANSFORD: Are you saying the threads are
24	COMMISSIONER HANSFORD: Right. My other two questions my		actually T plus one thread.
25	first one is: I don't quite understand question 20 in	25	A. Yes, tolerance. T plus tolerance.
	Page 98		Page 100
1	your witness statement, and your answer to question 20;	1	COMMISSIONER HANSFORD: T plus tolerance, and the tolerance
2	perhaps you could explain it.	2	is one thread?
3	A. I think this is in reference to our design calculation	3	A. One thread.
4	table for the diameter 40 rebar which BD actually asked	4	COMMISSIONER HANSFORD: So, therefore, if they are
5	from us. This particular table, I think it's at	5	butt-to-butt, then you would have at least one thread on
6	appendix I let me just double-check.	6	one side well, you could have one thread on both
7	It will be H44833.	7	sides or you could have two threads on one side?
8	COMMISSIONER HANSFORD: So the question and answer?	8	A. Yes. Essentially you could have you can shear it in
9	A. I think Mr Chan from BD was asking whether this design	9	that way, I suppose.
10	calculation table for the diameter 40 rebar is	10	COMMISSIONER HANSFORD: Because the tolerance would be the
11	applicable to the coupler that we supplied for this	11	exposed threads; is that correct?
12	project.	12	A. If I can allow myself to do a quick demonstration.
13	COMMISSIONER HANSFORD: So what do you mean by "coupler	13	COMMISSIONER HANSFORD: Please.
14	material has a tensile strength higher than rebar	14	A. (Demonstrating). So on a normal, typical rebar, we
15	materials, so it is applicable"?	15	would have two ends which are threaded. One end we use
16	A. Material that we use for design to use for our	16	hand to screw on to the coupler and the other end we use
17	coupler is S55C. The typical alternate tensile	17	a PVC cap. So assume that the connecting bar,
18	strengths of our coupler design is within 700 to 750MPa.	18	continuation bar as you call it, is connected to the
19	Therefore, it is applicable in terms of its compliance	19	coupler, when you start the rotation of the continuation
20	with BD's requirement.	20	bar there will be some sort of separation
21	COMMISSIONER HANSFORD: Okay. I understand now. My fina		(demonstrating). I'm sorry about that.
22	question probably my final question I'm still	22	CHAIRMAN: Don't worry. It's just a broken knee-cap,
23	a bit confused by your answer to a previous question	23	I think.
- ·			
24 25	where you referred to butt-to-butt. Now, I know that butt-to-butt means, but I thought you were allowed to	24 25	<ul> <li>A. Quite hazardous.</li> <li>Because of the length of a typical bar, say 4 or</li> </ul>

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1	5 metres long, you probably have some self-weight on	1	A. Yes.
2	that particular bar. So once you sit the continuation	2	COMMISSIONER HANSFORD: That's very clear. Thank you.
3	bar onto the coupler, the actual friction from the	3	MR PENNICOTT: Sir, can I just say for the record, for the
4	self-weight will cause the coupler to rotate as you are	4	transcript, that the document that Mr Lim kindly took us
5	continually rotating the continuation bar.	5	to at H25/44833, the English translation is at
6	You can see I am demonstrating the rotation of that	6	H25/44527.1.
7	lower bar. In other words, the likelihood of all the	7	CHAIRMAN: Thank you.
8	exposed threads should all come up on the continuation	8	MR PENNICOTT: That was the table that we looked at.
9	bar.	9	CHAIRMAN: Sorry, I was just for fear of embarrassing
10	MR PENNICOTT: On one side.	10	myself, I was asking my colleague what "MPa" meant, and
11	A. On one side, it's all one side.	11	it's a measurement of force.
12	COMMISSIONER HANSFORD: Which therefore would leave one o	:12	MR PENNICOTT: Indeed.
13	two threads exposed?	13	CHAIRMAN: Thank you.
14	A. Yes.	14	MR PENNICOTT: I'm just pointing out to the Commissioner
15	COMMISSIONER HANSFORD: And when one or two threads is	15	A. It's good for me.
16	exposed, am I right in saying it's therefore	16	MR PENNICOTT: We'll give you a copy. That's the
17	butt-to-butt?	17	translation.
18	A. It is assumed to be butt-to-butt, because unless	18	Sir, as I say, I have no further questions. I hope
19	of course we are saying that there is the length is	19	that's been of some help.
20	actually perfect, for example, there's no tolerance, or	20	CHAIRMAN: Yes, it has. Thank you very much.
21	perfect length on that one. So yes, if there is	21	MR PENNICOTT: I don't know if anybody else has any
22	a tolerance, once you have tightened the connection and	22	questions.
23	you cannot go any further, then it will be certainly	23	CHAIRMAN: Yes.
24	butt-to-butt.	24	Cross-examination by MR SO
25	COMMISSIONER HANSFORD: Is that the same with a type B	25	MR SO: Sir, I have just very brief cross-examination in
	Page 102		Page 104
1	thread?	1	light of what the professor has sought to clarify with
2	A. Type B thread is slightly different. (Demonstrating).	2	the witness. Just a very short point.
3	I'll try a bit more carefully. When we thread the	3	Mr Lim, I am Simon So, I represent China Technology.
4	type B, we immediately screw the coupler in for	4	The first I want to take you to see a photograph.
5	protection, because there's a lot of threads exposed.	5	The photograph is at bundle D1/D232. Can I just invite
6	So we use coupler to protect this side of the thread	6	the Secretariat to blow up to the inverted number 7, the
7	(demonstrating).	7	instrument that looks like inverted number 7 in the
8	COMMISSIONER HANSFORD: Yes.	8	middle of the photograph.
9	A. And on the other side we would use a PVC cap.	9	CHAIRMAN: The wrench?
10	So when the steel fixer takes the continuation bar,	10	MR SO: The wrench.
11	they would butt up to the type B and start rotation	11	Mr Lim, I heard your evidence just now. Would there
12	(demonstrating), to connect the continuation bar. So	12	be any circumstances where, when workers are fixing the
13	they would continue to rotate until I'm going a bit	13	threaded rebars onto the couplers, they would be
14		14	required to use the wrench?
	slow, it's a bit heavy until the coupler has fully	14	-
15	engaged to the type A.	14 15	A. Very typically, if you are talking about the sample that
15 16	engaged to the type A. So the end result is you will have approximately	15 16	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your
15 16 17	engaged to the type A. So the end result is you will have approximately half of the coupler left, plus the tolerance exposed.	15 16 17	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will
15 16 17 18	engaged to the type A. So the end result is you will have approximately half of the coupler left, plus the tolerance exposed. COMMISSIONER HANSFORD: But presumably, then, there's even	15 16 17 18	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be
15 16 17	engaged to the type A. So the end result is you will have approximately half of the coupler left, plus the tolerance exposed. COMMISSIONER HANSFORD: But presumably, then, there's even more confidence with a type B	15 16 17 18 19	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be quite heavy. You will find, regardless of what you do
15 16 17 18 19 20	engaged to the type A. So the end result is you will have approximately half of the coupler left, plus the tolerance exposed. COMMISSIONER HANSFORD: But presumably, then, there's even more confidence with a type B A. That's correct.	15 16 17 18 19 20	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be quite heavy. You will find, regardless of what you do or tell the steel fixer, they will, most likely, have
15 16 17 18 19 20 21	<ul> <li>engaged to the type A.</li> <li>So the end result is you will have approximately half of the coupler left, plus the tolerance exposed.</li> <li>COMMISSIONER HANSFORD: But presumably, then, there's even more confidence with a type B</li> <li>A. That's correct.</li> <li>COMMISSIONER HANSFORD: that it would be butt-to-butt?</li> </ul>	15 16 17 18 19 20 21	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be quite heavy. You will find, regardless of what you do or tell the steel fixer, they will, most likely, have their typical tools to use, which is the typical pipe
15 16 17 18 19 20 21 22	<ul> <li>engaged to the type A.</li> <li>So the end result is you will have approximately half of the coupler left, plus the tolerance exposed.</li> <li>COMMISSIONER HANSFORD: But presumably, then, there's even more confidence with a type B</li> <li>A. That's correct.</li> <li>COMMISSIONER HANSFORD: that it would be butt-to-butt?</li> <li>A. Correct, because it would have started off being</li> </ul>	15 16 17 18 19 20 21 22	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be quite heavy. You will find, regardless of what you do or tell the steel fixer, they will, most likely, have their typical tools to use, which is the typical pipe wrench, to help them install the continuation bar into
15 16 17 18 19 20 21 22 23	<ul> <li>engaged to the type A.</li> <li>So the end result is you will have approximately half of the coupler left, plus the tolerance exposed.</li> <li>COMMISSIONER HANSFORD: But presumably, then, there's even more confidence with a type B</li> <li>A. That's correct.</li> <li>COMMISSIONER HANSFORD: that it would be butt-to-butt?</li> <li>A. Correct, because it would have started off being butt-to-butt.</li> </ul>	15 16 17 18 19 20 21 22 23	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be quite heavy. You will find, regardless of what you do or tell the steel fixer, they will, most likely, have their typical tools to use, which is the typical pipe wrench, to help them install the continuation bar into the coupler. So they either can use that, or the chain
15 16 17 18 19 20 21 22	<ul> <li>engaged to the type A.</li> <li>So the end result is you will have approximately half of the coupler left, plus the tolerance exposed.</li> <li>COMMISSIONER HANSFORD: But presumably, then, there's even more confidence with a type B</li> <li>A. That's correct.</li> <li>COMMISSIONER HANSFORD: that it would be butt-to-butt?</li> <li>A. Correct, because it would have started off being</li> </ul>	15 16 17 18 19 20 21 22 23	A. Very typically, if you are talking about the sample that I'm holding, which is pretty light in weight, your typical length that you will find at the job site will be anything between 4 to 5 metres long and they could be quite heavy. You will find, regardless of what you do or tell the steel fixer, they will, most likely, have their typical tools to use, which is the typical pipe wrench, to help them install the continuation bar into

	Page 105		Page 107
1	Q. Can you tell us what type of wrench is this, so far as	1	they hadn't been screwed in, if you use a type B. That
2	you see from the photo?	2	would probably be the only logical, I suppose logical,
3	A. From the photo, it looks like an ordinary pipe wrench.	3	problem that you might come across.
4	Q. I see. Thank you.	4	Q. Sorry to labour on this point, but just to clarify
5	The other topic that I only wish to deal with you is	5	suppose we have a type A coupler here, so be it a type B
6	regarding question 23 of your witness statement, which	6	or type A thread, in BOSA's point of view it is both
7	my learned friend Mr Pennicott has brought you to	7	acceptable for type B thread or type A thread, be it cut
8	already. There, you were asked: was it acceptable for	8	or not, to be screwed inside a type A coupler; is that
9	type B threads, if changed to type A threads, by cutting	9	the case?
10	the threaded portion on site. My question is slightly	10	A. Yes.
11	different to that. My question is: is it acceptable, in	11	MR SO: Thank you. No further questions.
12	terms of the specification of BOSA, for type B threads	12	COMMISSIONER HANSFORD: I think I was happy with that unt
13	without cutting to put into type A couplers? Is it	13	you said "be it cut or not".
14	possible or is it allowed?	14	MR SO: Because that's the answer that this witness gave in
15	A. Let's assume, if for example, let's say let's not	15	answer 23 in his witness statement. Therefore, I give
16	assume, let's say, if the designer said you were	16	this qualification that "be it cut or not".
17	supposed to use, you were supposed to order a type A and	17	COMMISSIONER HANSFORD: Okay, but "be it cut", he said, is
18	you ordered a type B, that would probably be a more	18	highly not recommended.
19	likely scenario, I think. If you were an RSE or RC, the	19	MR SO: Indeed, but technically he said it is acceptable.
20	T3 assigned supervisor on site, doing your sign-off	20	COMMISSIONER HANSFORD: Thank you.
21	work, and you saw perhaps five threads not fully	21	CHAIRMAN: Thank you.
22	engaged, then you will probably have a problem. You	22	Cross-examination by MR KHAW
23	would think they are not screwed in at all. From that	23	MR KHAW: Just a few questions from the government.
24	perspective, you would think it would be wiser to have	24	A. Yes.
25	a type A, where you can fully screw into the coupler,	25	Q. Earlier on, Mr Chairman asked you a question regarding
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1	then it makes the job of the next person who is going to	1	whether there were any cases in which people said the
2	sign off on that particular site a lot easier because	2	threads had broken or the threads were damaged and they
3	they would not see any threads exposed, I suppose. That	3	asked for replacement, and you told us that there was
4	would be the only logical answer that I think I've got	4	one complaint from Intrafor which involved about
5	for you.	5	20 threaded rebars; do you remember that?
6	COMMISSIONER HANSFORD: Sorry, I thought the question was	-	A. Yes.
7	slightly different. If one were to use a type B instead	7	Q. If I may just take you to see a few pictures, at E5,
8	of a type A threaded bar	8	starting from 1279. We can see that is a picture and it
9	A. Yes, it is possible.	9	shows some scrap metal after replacing damaged couplers
10	COMMISSIONER HANSFORD: Well, is it possible and is it	10	and if we just move on to see a few more pictures, they
11	acceptable? Would it change the properties	11	intend to show similar situations regarding damaged
12	MR SO: Would it	12	couplers, and 1281 actually shows the damaged couplers,
13	COMMISSIONER HANSFORD: I'm sorry. You carry on.	12	as we can see.
14	MR SO: Would it reduce the tensile strength, the question	14	Were you aware of the situation where the couplers
15	is?	15	were damaged and had to be replaced?
16	A. No, it doesn't reduce the tensile strength, because we	16	A. You have jogged my memory. This photo I haven't seen
17	are using type B and type A for this entire project.	17	None of these photos you have just shown, I haven't seen
18	Type B is an installation method, so instead of rotating	18	either of them.
19	the continuation bar you are actually rotating the	19	Q. I see.
20	coupler.	20	A. But the couplers that are in our job site, basically
	So, as I was saying, if you wanted to make the	21	free for they are available for anybody to come and
			• • •
21		2.2	take, provided they've got the label attached on them
21 22	inspection work easier, you would order the right type,	22 23	take, provided they've got the label attached on them saving they have been tested.
21		22 23 24	take, provided they've got the label attached on them saying they have been tested. Q. Right.
21 22 23	inspection work easier, you would order the right type, so you can make the job of the next person who is	23	saying they have been tested.

27 (Pages 105 to 108)

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2         the case that we do remember 1 do remember one case         2         thread-check form, which is 1 think under app           3         where Fang Sheung came and took a couple of boxes of         4         Q. Yes.           4         Q. I see. So you did receive additional order for couplers?         A. No specific order to say it is for replacement couplers.         5         A. And we have adopted the minimum of 20 per inspection for our threaded bars.         7         Q. Right.         8         A. We do, as part of the training session, basical through the supervision requirements for the quirements for the quirements for the quirements for the quirements in the work of the work is a green label to of our workers know we're not supposed to use that batch for our tag on, which would agrit is for tested.         Q. Yes.         Q. Yes.         Q. Yes.         Q. We do follow is for to couplers?           2         A. I have orders for couplers, but I would not be able to order dort actually hor replacement of damaged couplers?         No. N. I have orders for couplers, but I would not be able to order dort actually for replacement of damaged couplers?         1         1         1         1         couplers for couplers, but I would not be able to order dort actually hor replacement of damaged couplers?         2         0. A. I have orders for couplers, but I would not be able to order dort actually for replacement of damaged couplers?         1         1         1         1         2         Now, if we look at the supervision and inspection by R         1         1         1<	Page 111
2       the case that we do remember 1 do remember one case       2       thread-check form, which is 1 think under app         3       where Fang Sheung came and took a couple of boxs of       4       Q. Yes.         4       Q. I see. So you did receive additional order for couplers?       A. No specific order to say it is for replacement couplers.       5       A. And we have adopted the minimum of 20 per inspection for our threaded bars.         9       They just make bulk orders. So they would place       0       8. A. We do, as part of the training session, basical through the supervision requirements for the quirements in the worder for, say 10,000 couplers, and where they use in the wood follow is that if there is a green label       9       10       10       10       10       10       10       10       10       10       10       10       11       10 <td>A. We basically helped them fill in one form, which is the</td>	A. We basically helped them fill in one form, which is the
3       where Fang Sheung came and took a couple of boxes of       3       1 think it might be.         4       couplers to replace, but we had informed Leighton that       4       Q. Yes.         6       Q. I see. So you did receive additional order for couplers.       5       A. Ma we have adopted the minimum of 20 per         7       which would need to replace certain damaged couplers?       8       A. We do, as part of the training session, basical         9       They just make buk orders. So they would place       9       supervision requirements for the q         10       an order for, say, 10,000 couplers, and where they use       10       supervision appointed by both MTR and Leigh         11       attached to that pallet of couplers, then it is okay to       12       Q. Yes. If we look at the supervision requirements are.         12       Q. Yes. If we look at the supervision system as stipulat       13       at paragraph (5). "Supervision and inspection by RI         13       attached to that pallet of couplers, but I would not be able to       14       14       14         14       the order for chem.       20       A. I have orders for couplers, but I would not be able to       14       14       14       14       24       14       24       14       24       14       24       14       24       14       24       14	
4       Q. Yes.         5       they were taken, but for what purpose we were not suc.       5         6       Q. I see. So you dit need to replace certain damaged couplers?       6         7       which would need to replace certain damaged couplers?       7         8       A. No specific order to say it is for replacement couplers.       7         9       Ne do, a part of the training session, basical trough the supervision requirements for the quark, what the supervision requirements for the quark, what the supervision requirements are quark what the supervision requirements are quark, what the supervision requirements are quark, what the supervision requirements are quark, the site supervision will we supervision on site works", and where they use it is day its not tested, the nall of or ur workers know were not supposed to use that bach of our workers know were not supposed to use that bach of ware orders for couplers, but I would not be able to replacement of damaged couplers?       2       Q. Yes.         9       Q. Would you have any record regarding the additional bulk refers of additional couplers?       1	
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14       use because they have been tested. If it's got a red       14       "Beside the site supervision system as stipulate         15       colour tag on, which would say it's not tested, then all       16       of our workers know we're not supposed to use that batch         16       of our workers know we're not supposed to use that batch       17       yet, until it's fully tested.         18       Q. Would you have any record regarding the additional bulk       17       1 and 2. 1 is "Supervision and inspection by R         19       orders of additional couplers?       14       "Beside the site supervision and inspection by R         20       A. I have orders for couplers, but I would not be able to       12       14       "I take it that the "RC" here stands it's referrin         21       distinguish for the case of how many were being of       21       Q. Then paragraph 2, regarding "Supervision and inspection will be carried out", and         22       We don't actually have that information. They would       23       Now, if we look at the supervision and inspection         23       We don't actually have that information. They would       24       RC first, from BOSA's point of view, apart fro         24       just simply give us an order saying, "We need another       25       . wein, insofar as supervision is concerned, would         3       or -       4       No, no. They come directly from Leighton, and g	Q. Yes. If we look at the supervision requirements here,
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<ul> <li>4 A. No, no. They come directly from Leighton, and generally</li> <li>it's through Edward Mok.</li> <li>6 COMMISSIONER HANSFORD: Sorry, so those replacement</li> <li>7 couplers, you didn't know they were going to be used for</li> <li>8 replacement, but they are included in those numbers you</li> <li>9 gave us earlier?</li> <li>10 A. That's correct.</li> <li>11 COMMISSIONER HANSFORD: Okay. Thank you.</li> <li>12 MR KHAW: Thank you. One more question regarding perhaps</li> <li>13 more than one the training session that you gave.</li> <li>14 We've seen the training attendance record, as referred</li> <li>15 to by Mr Pennicott.</li> <li>16 You told us that the training session primarily</li> <li>4 actually overseeing the actual work when the couristant over seeing the actual work when the form and the form</li></ul>	view, insofar as supervision is concerned, would you
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16 You told us that the training session primarily 16 Q. Thank you. If we go to the appendix that you've	
17 focused on quality assurance, and you also covered the 17 referred us to, at page 4277 I believe this is the	referred us to, at page 4277 I believe this is the
1718quality supervision plan. If I can just very briefly18appendix that we have been talking about.	
10quarty supervision plan.111213appendix that we have been taking about.19take you to have a look at the quality supervision plan.19A. Yes, that's correct.	· · ·
	Q. The heading says "MTRC TCP-T3 independent checklist for
	on-site assembly of BOSA Seisplice couplers in any
21   Is suppose you must be fullimation of the use of	
	Do I take it that it's clear from BOSA's point of
	view that such checklist applies to both the diaphragm
25 was prepared by BOSA as well? 25 walls and the platform slabs?	

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1	A. For any type 2, yes. For any type 2 couplers, we	1	A. So I would take it literally, that one. I'm not very
2	automatically tell the clients that this form needs to	2	sure.
3	be kept and filled filled in and kept in a logbook.	3	COMMISSIONER HANSFORD: Thank you.
4	CHAIRMAN: Is that the same with other branded couplers, do	4	MR KHAW: Finally, can I just confirm with you whether, in
5	you know?	5	the training session, the message was conveyed to the
6	A. I am not 100 per cent sure, but based on the imposed BD	6	participants that such appendix, ie this record-keeping
7	condition because our QSP and our quality assurance	7	exercise, would be needed for any location where coupler
8	manual is consistent with BD's imposed conditions. So,	8	installations were carried out?
9	yes, I would assume so.	9	A. Yes. We always say, for type 2, these two forms,
10	CHAIRMAN: Why is it necessary for there to be this	10	particularly the appendix B, must be followed.
11	supervision?	11	MR KHAW: Thank you. I have no further questions.
12	A. We are just strictly following the BD's requirement.	12	CHAIRMAN: I take it no further questions?
13	CHAIRMAN: All right. So it's a Buildings Department	13	MR CONNOR: None, thank you, sir.
14	A. Yes.	14	MR BOULDING: I have a couple of questions, sir. I don't
15	MR KHAW: Can you tell us whether this record-keeping	15	know if you would like me to put them know or after the
16	requirement was covered in the training session?	16	break. I'm entirely in your hands.
17	A. Yes. We run through appendix B. The reason we run	17	CHAIRMAN: What time are we
18	through them is because it actually really consisted of	18	MR PENNICOTT: It's probably my fault, but we are running
19	very practical measures. For example, if you were	19	a bit behind and we need to connect up with London
20	concreting and you had the coupler which would be	20	relatively soon, although I think a communication has
21	embedded inside the concrete, you would definitely	21	been sent to London that we are a bit behind.
22	tighten the coupler before you pour concrete. In	22	SECRETARY: We need to test it too.
23	column 2, "Has the coupler been cleared of any foreign	23	CHAIRMAN: Mr Boulding, would it be all right if we
24	[matters]?" So it's more quite practical, as you can	24	continued straight on?
25	see from that point of view. So it's cleanliness of the	25	MR BOULDING: Of course it will be, sir.
	Page 114		Page 116
1	coupler and the thread itself before you actually do the	1	CHAIRMAN: Thank you very much.
2	necessary work.	2	Cross-examination by MR BOULDING
3	And point 4 is after you have connected the rebar	3	MR BOULDING: Good afternoon, Mr Lim. Just one or two
4	into the coupler, that you would make sure it is within	4	matters I'd like to clarify with you, because it's not
5	tolerance, after you've tightened the connection bar.	5	entirely clear on the transcript what you were saying as
6	And the last one, which I must admit I'm not very sure	6	far as we're concerned.
7	how this one is checked, is for verticality I assume	7	You will recall, will you not, that you were asked
8	they will use a spirit level for that one.	8	about cutting threaded rebars?
9	COMMISSIONER HANSFORD: Sorry, on that last one because	9	A. Yes.
10	we were pondering this one before verticality	10	Q. And in particular, you were asked about cutting type B
11	checking, presumably, almost obviously, that's only for	11	threaded rebars to use with what were referred to as
12	vertical couplers?	12	type A couplers; do you remember that line of
13	A. I assume so. I would imagine, if you're using coupler	13	questioning?
14	from floor to floor on a typical building, if the rebar	14	A. Yes.
15	is slightly bent to one end (demonstrating), you might	15	Q. I think the conclusion that we were given was that it
16	be able to connect to that existing connection.	16	was technically acceptable but not recommended?
17	However, the next connection might be very difficult	17	A. Technically possible and not recommended.
18	because you might experience misalignment problems.	18	Q. Right, you clarified something there for me then. Just
19	I think I would assume there's some sort of reason	19	summarise, why do you say it is not recommended?
20	for rejecting anything that is beyond 10 per cent.	20	A. It is not in our standard installation practice.
21	COMMISSIONER HANSFORD: Yes, I understand that, but for	21	Q. Right. So do I take it that you would regard any
22	horizontal couplers, presumably this column is not then	22	cutting of the threaded rebars as a malpractice?
23	required?	23	A. It would not be normal. It would not be normal
24	A. Yes, I think it says "verticality".	24	practice.
25	COMMISSIONER HANSFORD: It does, yes.	25	Q. Right. I wonder if we can look at a photo together.

Commission of Inquiry into the Diaphragm Wall and Platform Slab Construction Works at the Hung Hom Station Extension under the Shatin to Central Link Project

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1	Could we go to photograph C40.	1	China, Dr McCrae.
2	I don't know whether you've seen one of these	2	Before proceeding with him, I think it's appropriate
3	before.	3	just to mark a word of appreciation, Mr Chairman and
4	A. No, I haven't, actually.	4	professor, to yourselves and the Secretariat and the
5	Q. We'll see where we can go with the questioning. We've	5	legal team led by Mr Pennicott for the arrangements that
6	heard evidence that that object there is a rechargeable	6	have been made for Dr McCrae to give evidence rather
7	electronic band saw.	7	than travel to Hong Kong to do so, and of course
8	A. Okay.	8	appreciation to the other parties' for their cooperation
9	Q. Is that something you've ever used?	9	in relation to that.
10	A. No, I haven't even seen this before.	10	We have on the screen and indeed in London, live in
11	Q. Right. Let me ask you this and we'll see how far we can	11	London, Dr McCrae.
12	go. Just assume that that was used to cut off some of	12	Dr McCrae, can you hear us?
13	the threads on the end of a threaded rebar. Do you have	13	WITNESS: Yes, I can.
14	a view as to whether that would risk damaging the	14	MR CONNOR: You are Dr Robert McCrae of Atkins China
15	remaining threads?	15	CHAIRMAN: Perhaps you can check that he can hear us okay.
16	A. I have never used this tool, and so therefore I don't	16	MR CONNOR: Dr McCrae, you can hear proceedings in
17	think it's appropriate for me to guess whether that	17	Hong Kong?
18	actually would be okay or not.	18	WITNESS: Yes, I can.
19	Q. Right.	19	DR ROBERT WILLIAM MCCRAE (sworn)
20	A. I couldn't answer your question.	20	Examination-in-chief by MR CONNOR
21	MR BOULDING: If you can't answer my question, I shan't push	21	MR CONNOR: Just for the purposes of the transcript, would
22	you. Thank you very much.	22	you please confirm again, now that you have returned to
23	Thank you, sir. That's my question.	23	the microphone, that you are Dr Robert McCrae?
24	CHAIRMAN: Good. Anything arising? No.	24	A. I am.
25	Thank you very much, Mr Lim. That's very good of	25	Q. Thank you. That's clear. You are also known as
	Page 118		Page 120
1	you. It's been a very considerable help. Thank you.	1	Rob McCrae?
2	WITNESS: You're welcome. Thank you.	2	A. That's correct.
3	MR PENNICOTT: Can I also express our thanks and the	3	Q. Thank you. Now, Dr McCrae, you are technical director
4	Commission's thanks to Mr Lim and BOSA for the	4	with Atkins, or SNC-Lavalin Atkins now?
5	assistance they gave the Commission's expert when he was	5	A. Yes, that's correct.
6	last here, in various demonstrations and also in	6	Q. And you've been with Atkins for some 22 years?
7	providing the various exhibits that we've got as well.	7	A. Yes, that's correct.
8	CHAIRMAN: Yes. Thank you.	8	Q. Your role as technical director is within the
9	WITNESS: You're welcome.	9	infrastructure business of Atkins; is that so?
10	CHAIRMAN: Good. Mr Lim, you can now leave.	10	A. Of Atkins UK, yes, that's correct.
11	WITNESS: Thank you.	11	Q. Thank you. As you know, we are going to ask you some
12	CHAIRMAN: Thank you very much. We will return the exhibits		questions this morning, London time, about your
13	in due course.	13	involvement in the Shatin to Central project and
14 15	WITNESS: It's okay. Keep them as a souvenir.	14 15	specifically the Hung Hom Station Extension project in Hong Kong Vou're aware of that of course?
			Hong Kong. You're aware of that, of course?
	COMMISSIONER HANSFORD: A souvenir, thank you.		A Vas Lam
16	(The witness was released)	16	A. Yes, I am.
16 17	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps	16 17	Q. In that regard, you had two roles in particular which
16 17 18	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London.	16 17 18	Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design
16 17 18 19	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London. CHAIRMAN: Yes. Thank you.	16 17 18 19	Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design team leader for team A, working for Atkins on behalf of
16 17 18 19 20	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London. CHAIRMAN: Yes. Thank you. MR PENNICOTT: Thank you very much.	16 17 18 19 20	Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design team leader for team A, working for Atkins on behalf of MTRC; is that so?
16 17 18 19 20 21	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London. CHAIRMAN: Yes. Thank you. MR PENNICOTT: Thank you very much. (3.50 pm)	16 17 18 19 20 21	<ul><li>Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design team leader for team A, working for Atkins on behalf of MTRC; is that so?</li><li>A. That's correct.</li></ul>
16 17 18 19 20 21 22	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London. CHAIRMAN: Yes. Thank you. MR PENNICOTT: Thank you very much. (3.50 pm) (A short adjournment)	16 17 18 19 20 21 22	<ul><li>Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design team leader for team A, working for Atkins on behalf of MTRC; is that so?</li><li>A. That's correct.</li><li>Q. Thank you. If we can just have, for the record, please,</li></ul>
16 17 18 19 20 21 22 23	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London. CHAIRMAN: Yes. Thank you. MR PENNICOTT: Thank you very much. (3.50 pm) (A short adjournment) (4.15 pm)	16 17 18 19 20 21 22 23	<ul><li>Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design team leader for team A, working for Atkins on behalf of MTRC; is that so?</li><li>A. That's correct.</li><li>Q. Thank you. If we can just have, for the record, please, a couple of productions put in front of you. The first</li></ul>
16 17 18 19 20 21 22	(The witness was released) MR PENNICOTT: Sir, I think we need to break now and perhaps we can let you know when we're ready to go with London. CHAIRMAN: Yes. Thank you. MR PENNICOTT: Thank you very much. (3.50 pm) (A short adjournment)	16 17 18 19 20 21 22	<ul><li>Q. In that regard, you had two roles in particular which I'll just ask you to confirm. The first was as design team leader for team A, working for Atkins on behalf of MTRC; is that so?</li><li>A. That's correct.</li><li>Q. Thank you. If we can just have, for the record, please,</li></ul>

30 (Pages 117 to 120)

	Page 121		Page 123
1	We'll wait for a moment for you to have that. Let us	1	Q. And that was for the Atkins team working to and
2	know once it's in front of you.	2	responsible to Leighton in relation to this project?
3	A. Yes, it's in front of me now.	3	A. Yes, it was.
4	Q. Thank you. J83 should be a sheet that is headed	4	Q. Thank you. I think for the sake of completeness, you
5	"SNC-Lavalin Atkins", and it should say "Roles and	5	held this role between May 2014 and April 2016?
6	responsibilities of key for team A staff; is that so?	6	A. Yes, that's right.
7	A. That's so.	7	Q. If you would be good enough to turn to page J90, we see
8	Q. Thank you. You will see below the description of the	8	then the organisation chart as at November 2014, and we
9	project director's roles and responsibilities, there is	9	see you described there as project manager, around about
10	set out there the roles and responsibilities of the	10	the middle of the page?
11	design team leader; do you see that?	11	A. Yes, I can see that. That's right.
12	A. Yes, I do.	12	Q. In that regard, your interface was with Mr pardon me,
13	Q. Are you familiar with this description of your roles and		was with a Mr Brett Buckland of Leighton?
14	responsibilities in your team A role, Dr McCrae?	14	A. Yes, it was with Brett, yes.
15	A. Yes, I am.	15 16	Q. And we see again Mr Blackwood in a line out to the
16 17	Q. Thank you. If you would be good enough to turn on, please, further on, to a document at J89. That appears	17	right-hand side. So Mr Blackwood was someone who you had some significant engagement with in this role also;
17	to be a team structure. Let us know when it's in front	18	yes?
10	of you.	19	A. Yes, it is, that's correct.
20	A. It's in front of me now.	20	Q. Thank you.
20	Q. Thank you. This is a team structure which is dated as	21	Now, in 2016 you relocated to the UK, and as you
$\frac{21}{22}$	at October 2015, and we understand that this is the team	22	have described earlier to the Commissioners you are
23	structure for team A at that time. Is that so?	23	still with Atkins, and you are working as a project
24	A. Yes, that's so.	24	director in relation to a section of the High Speed 2
25	Q. Thank you. I think we see your name as design team	25	project in the UK?
	Page 122		Page 124
1	leader towards the top of the structure?	1	A. Yes, that's correct.
2	A. Yes, that's correct.	2	Q. Thank you. But it's with regard to your Hong Kong roles
3	Q. In that regard, you reported to Mr Blackwood?	3	that you give evidence to this Commission, and if you
4			
	A. Yes, I did.	4	would be good enough to identify your witness statement,
5	A. Yes, I did. Q. Thank you.	4 5	would be good enough to identify your witness statement, which we will ask to have put up in front of you, and
5	Q. Thank you.	5 6 7	which we will ask to have put up in front of you, and
5 6 7 8	<ul><li>Q. Thank you. The role that you had as design team leader you held between November 2014 and April 2016; is that so?</li><li>A. That is so.</li></ul>	5 6	<ul><li>which we will ask to have put up in front of you, and that is J4/9.0. Let us know once it's in front of you, please.</li><li>A. Yes, it's there and I identify it.</li></ul>
5 6 7 8 9	<ul><li>Q. Thank you. The role that you had as design team leader you held between November 2014 and April 2016; is that so?</li><li>A. That is so.</li><li>Q. Thank you.</li></ul>	5 6 7 8 9	<ul><li>which we will ask to have put up in front of you, and that is J4/9.0. Let us know once it's in front of you, please.</li><li>A. Yes, it's there and I identify it.</li><li>Q. Thank you. I think it begins at page J3344; is that so?</li></ul>
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	Page 125		Page 127
1	witness statement at paragraphs 60 to 96 and you agree	1	in front of me, will ask you some questions on behalf of
2	with the comments stated there. Is that so?	2	the Commission, and then some other lawyers in this room
3	A. That's so, yes.	3	may have some questions for you, so they will then
4	Q. Thank you. So your evidence we will come to in its	4	proceed. The Chairman and the professor may have
5	entirety in a moment, but for the purposes of your	5	questions for you at any time, and I know you will do
6	evidence in relation to the alleged change in connection	6	your best to assist the Commissioners. Lastly, it may
7	details, you convey to the Commission Mr Blackwood's	7	come back around to me again to ask you a few more
8	evidence, which you've read and which you agree, as	8	questions.
9	added to by the paragraphs which then follow	9	Is that reasonably clear?
10	paragraph 48; is that so?	10	A. That's clear.
11	A. That's so.	11	Q. Thank you very much, Dr McCrae. I will leave you with
12	Q. Thank you. Again, just for the sake of convenience, can	12	Mr Pennicott. Thank you.
13	you turn to paragraph 62. You'll see that that is on	13	A. Thank you.
14	page J3353; do you see that?	14	Examination by MR PENNICOTT
15	A. I do.	15	MR PENNICOTT: Dr McCrae, as Mr Connor has indicated, my
16	Q. Now, I think this is a minor correction which you drew	16	name is Ian Pennicott, I'm one of the lawyers to the
17	to my attention in the last day, which relates to	17	Commission, and I have a few questions for you. I'm
18	line 4, where there is reference to "EH72 and EM74". Do	18	going to try to take them as quickly as I can. If at
19	you see that reference?	19	any stage you can't hear me or there's a problem with
20	A. Yes. Shall I explain?	20	the documents, please just let us know.
21	Q. Yes, please do.	21	We have covered quite a bit of ground with
22	A. I have transposed the H and the M. Panel 72 is actually	22	Mr Blackwood already, but unfortunately there were areas
23	a missed panel so it should have been EM72, and panel 74	23	where he indicated that you might be a better witness to
24	is a hit panel, so it should have been EH74.	24	ask questions of, but as I say I'm not going to
25	Q. Thank you very much. While we are on some minor	25	transverse over ground that I've covered with
	Page 126		Page 128
1	adjustments, we should just turn very quickly, please,	1	Mr Blackwood already and we'll just get straight down to
2	to the corrigendum at J4/9.0A, if you might have that	2	it, if we can.
3	before you.	3	Dr McCrae, first of all, we've seen, in the document
4	A. Yes, it's there.	4	that Mr Connor took you to, the roles and
5	Q. Thank you. This is another modest change which you have	5	responsibilities of the project manager for team B and
6	made to your statement in the last week or so?	6	the design team leader for team A.
7	A. Yes, that's correct.	7	Dr McCrae, in reality, were there any practical
8	Q. Thank you very much. Would you just confirm, please, to	8	differences between your duties and responsibilities in
9	the learned Commissioners, Dr McCrae, that this witness	9	those two roles?
10	statement, together with the change which you described	10	A. In that I was reporting to different clients, there were
11	in paragraph 62 and to the corrigendum make up your	11	obviously matters which were privy to one part and
12	evidence which you present to this Commission?	12	perhaps not privy to the other, but as a technical
13	A. Yes, it is.	13	leader in most things, they were very similar roles.
14	Q. Thank you. Again, just for the sake of completeness,	14	Q. Right. I think you tell us that neither team A nor
15	your CV is attached to that statement at page J3358. Is	15	team B were site-based is that correct?
16	that so?	16	A. That's correct.
17	A. That is so, yes.	17	Q. You say, however, that the teams would be confined to
18	Q. So is that witness statement, together with your CV,	18	occasional site visits?
19	your evidence, and is it true to the best of your	19	A. That's correct.
20	knowledge and belief, Dr McCrae?	20	Q. As we know, you were, as it were, the most senior person
21	A. It is my evidence and to the best of my knowledge it is	21	both in team A and team B, save for Mr Blackwood?
22	true.	22	A. That's correct.
23	Q. Thank you very much. Dr McCrae, I have no further	23	Q. I don't know whether you've had an opportunity of
24 25	questions for you at this stage, but I should explain what will happen next. Mr Pennicott, who's immediately	24	looking at some of the evidence of Mr Buckland, who was
12.7	what will happen next. Will rennicott, who's infinediately	25	mentioned a short while ago, that's Mr Buckland of

	Page 129		Page 131
1	Leighton, but he says this in his witness statement:	1	in, but do you have any recollection of the email?
2	"Typically, the same group of people at Atkins acted	2	A. I don't have a recollection of the email.
3	as MTR's DDC and also for Leighton."	3	Q. Was Mr Wilson team B?
4	And in another part of his statement he says:	4	A. Mr Wilson was the leader of the design leader of
5	"While MTR may have initially intended there to be	5	team B, yes, that's correct.
6	some separation between the two Atkins teams, MTR knew	6	Q. Okay. Could I just show you the report that is
7	there was no real separation and accepted this	7	attached. It starts at 23946. Do you see that?
8	position."	8	A. I do.
9	Dr McCrae, from paragraphs 16, 18 and 19 of your	9	Q. Thank you. We can see that it's described as
10	witness statement, I understand that you don't subscribe	10	a "Diaphragm wall coupler check at NSL base and EWL roof
10	and agree with that view as expressed by Mr Buckland.	11	level area C (future panels)". It's prepared by "SR"
11		11	and checked by "ST". Do you know who "SR" and "ST"
	Am I right?	12	
13	A. Yes, you are right. I don't agree fully with		were?
14	Mr Buckland.	14	A. I don't, but I believe that they were engineers in the
15	Q. How would you describe the separation between the two	15	Atkins Bangalore office who were doing work for us at
16	teams?	16	the time, but I don't know exactly who they were.
17	A. We obviously strove to have as much separation and use	17	Q. Okay. Thank you very much.
18	different people for different tasks. For example, if	18	If you go over to page 23948. Just looking at that
19	you took the geotechnical team, that was totally	19	introductory page to the report, Dr McCrae, do you have
20	separate and because of the resources there, we did	20	any recollection of seeing this report? Do you remember
21	endeavour to use team A resource with team B and	21	it?
22	vice versa.	22	A. I don't remember it, no. I don't remember it.
23	The structural work was a bit different in that	23	Q. We can see that it appears to focus upon a short list of
24	because of the large amount that developed, particularly	24	particular panels; do you see that?
25	in 2015, we did use people on occasion to assist in both	25	A. I do.
1			
	Page 130		Page 132
1	Page 130 teams. This was made fully visible to both MTR and	1	Page 132 Q. So far as the east diaphragm wall is concerned, it
1 2	teams. This was made fully visible to both MTR and Leighton when we were doing it, but it was a necessity	1 2	-
	teams. This was made fully visible to both MTR and		Q. So far as the east diaphragm wall is concerned, it
2	teams. This was made fully visible to both MTR and Leighton when we were doing it, but it was a necessity	2	Q. So far as the east diaphragm wall is concerned, it focuses on, in particular, EH107 and EH105; do you see
2 3	teams. This was made fully visible to both MTR and Leighton when we were doing it, but it was a necessity of the volume of work at the time and the most efficient	2 3	Q. So far as the east diaphragm wall is concerned, it focuses on, in particular, EH107 and EH105; do you see that?
2 3 4	teams. This was made fully visible to both MTR and Leighton when we were doing it, but it was a necessity of the volume of work at the time and the most efficient way and a collaborative way to undertake the works.	2 3 4	<ul><li>Q. So far as the east diaphragm wall is concerned, it focuses on, in particular, EH107 and EH105; do you see that?</li><li>A. I do.</li></ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>teams. This was made fully visible to both MTR and Leighton when we were doing it, but it was a necessity of the volume of work at the time and the most efficient way and a collaborative way to undertake the works.</li> <li>Q. Yes. That reflects, I think, Dr McCrae, evidence that we have heard, that insofar as there was or emerged a degree of lack of separation, it was because of the increased amount of work so far as team B was concerned; is that right?</li> <li>A. Yes, that's correct.</li> <li>Q. All right. In paragraphs 24 to 32 of your witness statement, you deal with what we describe and I think you describe also as the missing U-bar issue and how it was resolved and addressed.</li> <li>A. Yes, that's correct.</li> <li>Q. Could I please ask you to be shown a document at F34/23939.</li> <li>A. Yes, I see that document.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. So far as the east diaphragm wall is concerned, it focuses on, in particular, EH107 and EH105; do you see that?</li> <li>A. I do.</li> <li>Q. In the third paragraph it says: <ul> <li>"However as the slab reinforcement has been made continuous over the D-wall support without proper anchorage into the D-wall for panel 107, it is proposed to demolish the top portion of D-wall and add the required number and diameter of rebar as per design drawings and achieve the full anchorage length with the D-wall vertical reinforcement. For details refer to attached sketch." <ul> <li>Do you see that?</li> </ul> </li> <li>A. I do see that.</li> <li>Q. There's a similar proposal in the next paragraph which I won't read out in relation to EH105.</li> <li>A. I see that as well.</li> <li>Q. As I understand it, this was a proposal addressing the</li> </ul> </li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>teams. This was made fully visible to both MTR and Leighton when we were doing it, but it was a necessity of the volume of work at the time and the most efficient way and a collaborative way to undertake the works.</li> <li>Q. Yes. That reflects, I think, Dr McCrae, evidence that we have heard, that insofar as there was or emerged a degree of lack of separation, it was because of the increased amount of work so far as team B was concerned; is that right?</li> <li>A. Yes, that's correct.</li> <li>Q. All right. In paragraphs 24 to 32 of your witness statement, you deal with what we describe and I think you describe also as the missing U-bar issue and how it was resolved and addressed.</li> <li>A. Yes, that's correct.</li> <li>Q. Could I please ask you to be shown a document at F34/23939.</li> <li>A. Yes, I see that document.</li> <li>Q. The system is quicker me, Dr McCrae. We there see an email of 28 February of David Wilson of Atkins to Betty Ng of Leighton, attaching a design</li> </ul>	$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ \end{array}$	<ul> <li>Q. So far as the east diaphragm wall is concerned, it focuses on, in particular, EH107 and EH105; do you see that?</li> <li>A. I do.</li> <li>Q. In the third paragraph it says: <ul> <li>"However as the slab reinforcement has been made continuous over the D-wall support without proper anchorage into the D-wall for panel 107, it is proposed to demolish the top portion of D-wall and add the required number and diameter of rebar as per design drawings and achieve the full anchorage length with the D-wall vertical reinforcement. For details refer to attached sketch." <ul> <li>Do you see that?</li> </ul> </li> <li>A. I do see that.</li> <li>Q. There's a similar proposal in the next paragraph which I won't read out in relation to EH105.</li> <li>A. I see that as well.</li> <li>Q. As I understand it, this was a proposal addressing the problem that had arisen from the lack of anchorage arising from the missing U-bar in respect of these two particular panels. Do you agree?</li> </ul> </li> </ul>

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1	Q. Right. If you go to the sketches that are referred	1	bit, that top detail.
1 2	to that's at page 23970 and 71; let's look at 70	2	MR PENNICOTT: Are you on 970, sir?
3	first and one can see, on the extreme left-hand side	3	COMMISSIONER HANSFORD: Yes, the one on the screen, becaus
4	of this sketch, Dr McCrae, it says it's a bit	4	my reading of this
5	difficult to read it if we put it on its side we	5	MR PENNICOTT: 971.
6	might be able to rotate it for you but it says,	6	COMMISSIONER HANSFORD: is that the top bars in black,
7	"D-wall concrete has to be demolished till the required	7	that's the top layer and the next layer down, the red
8	anchorage length"; do you see that?	8	bars replace the ones that are shown in black, and it's
0 9	A. I do.	9	the ones in black that have couplers.
10	Q. Similarly, if we go over the page to see the position on	10	So I can't tell from this whether the couplers were
11	EH105, the same words are used.	11	intended to be retained in the top two bars or not, and
12	A. Yes, I see that.	12	I wondered what your interpretation of this sketch was.
12	Q. But on both of those sketches, would you agree it's	13	A. I see exactly what you mean. Yes, that interpretation
14	probably easier to see it from 23971 both proposals,	14	could be correct. I'm sorry, I can't recollect what it
15	or rather both panels, it was anticipated that the	15	was at the time, but your interpretation could be
16	couplers would be retained?	16	correct, yes. You could certainly interpret it that
17	A. I'm sorry, Mr Pennicott, could you repeat the last	17	way.
18	sentence? I didn't catch it.	18	COMMISSIONER HANSFORD: Okay. Thank you.
19	Q. Yes. Do you agree that both the sketches assume that	19	MR PENNICOTT: Thank you, Dr McCrae.
20	the couplers would be retained?	20	In paragraph 51 of your witness statement, which is
20	A. Yes, that does appear to be the case.	21	the subject of one of the short corrigendum that you've
21	Q. Right. So what the proposal was, in relation to these	22	provided to us, you make reference to a report,
23	two particular panels, was the trimming down of the	23	TWD-004B2, that was prepared by team B.
23	concrete but the retention of the couplers?	24	A. That's correct.
25	A. Yes, couplers would still be used, that's correct.	25	Q. We can find the report, I think, at J1, page 92. As you
	Page 134		Page 136
1	Q. Right. Now, in paragraph 51 of your witness	1	say in your statement we don't need to go to it; you
2	statement	2	give us the reference, helpfully this was provided by
3	COMMISSIONER HANSFORD: Sorry, could we just go back to the		team B as a draft to Leighton on 14 May 2015.
4	sketch for a second? Mr McCrae, the proposal here, as	4	A. Yes, that's correct.
5	I see, is to replace the top two bars that are shown in	5	Q. If you can please go to the next page, please, and the
6	black with the two bars that are shown in red; is that	6	next page thank you very much we see this is the
7	correct?	7	fourth issue of the document and you have approved it,
8	A. That is correct, so the couplers on the EWL slab will	8	subject to the point that you make in your corrigendum?
9	still be retained, but what this solution this is one	9	A. That's correct. Am I able to explain what I meant by
10	of the solutions that must have been discussed although	10	ink signing?
11	I don't recall it, it doesn't require you to put	11	Q. Yes, please. I was about to ask you.
12	anchorage into the OTE slab. All the anchorage can be	12	A. The documents we prepared for all the various issues,
13	obtained in the diaphragm wall with this proposal.	13	when they are formally issued to Leighton, that means
14	COMMISSIONER HANSFORD: I understand that, Mr McCrae, and		that we print the hard copies, we provide all the
15	I think we are probably coming to that at a later stage,	15	(unclear words) so it's final thing, the letter
16	but I'm just coming back to whether the couplers are	16	changes from whatever it is, from an A to a B. So, for
17	still required, because the couplers are shown in black,	17	example, where you see there "A2", if you went to the
18	but the new work is the red that replaces the black,	18	document A2, you would see that that was wet signed.
19	isn't it?	19	That indicates that we have formally issued it; it's no
20	A. I apologise. Yes. Those could be straight bars or	20	longer a document in development through discussion with
21	couplers. Actually, looking at the drawing I can't be	21	ourselves and Leighton.
22	certain, because the couplers are still there, but	22	So what I'm saying is B2, because we haven't wet
23	I can't be certain whether the couplers were to be	23	signed it, but I was aware of the document, obviously,
24	omitted or not, although they're still shown there. COMMISSIONER HANSFORD: Can we just blow that up a little	24 25	as you are aware from the email trail, we haven't wet signed it, so we never formally issued it to Leighton.

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1	Q. Okay. So you say, in careful wording in your statement,	1	Q. And the hatched area appears to cover the slab sorry,
2	it was provided as a draft?	2	the OTE wall, the top of the diaphragm wall and the
3	A. Sorry, Mr Pennicott, I did not catch that.	3	slab; do you see that?
4	Q. As you say in your statement, it was provided as	4	A. I do.
5	a draft?	5	Q. Do you agree with that?
6	A. That's correct, for discussion.	6	A. If this option, as I interpret it, and I think you have
7	Q. Yes. All right. Without dwelling on it, if we go to	7	as well, to be through-bars, you would have had to do it
8 9	page 106, we see paragraph 1.3.5, which I'm not going to go through with you, and then over the page we see the	8	that way.
10	figure 1.4 that we've looked at a number of times	9 10	Q. Right. So, if I've understood your evidence, then what this is showing is trimming down of the concrete and the
11	before, and again we don't need to dwell on it at this	10	diaphragm wall, through-bars, and the provision of
12	stage.	12	anchorage at the OTE, and concurrent concreting?
13	A. Yes, I see the figure.	12	A. That is an interpretation, I think that was possibly
14	COMMISSIONER HANSFORD: Sorry, once again, whilst we're no		an option that was being discussed at that time, yes.
15	dwelling on it do these top three layers have	15	Q. Dr McCrae, what does the word "concurrently" mean in
16	couplers or not, Dr McCrae?	16	this context?
17	A. I don't believe they do as it's shown on here.	17	A. My interpretation is it means that the pour for the EWL
18	COMMISSIONER HANSFORD: Right. So is it therefore the same	18	slab, that small section of diaphragm wall which
19	point that we came to between us ten minutes ago, that	19	contains the through-bars and I'm interpreting them
20	the red replaces the black, and the black is where the	20	as through-bars and the OTE should be all poured at
21	couplers are?	21	the same time.
22	A. At this time, this was obviously an option we were	22	Q. Right. In effect, poured all in one piece?
23	looking at. I don't remember it in detail. But we	23	A. Yes. In this case, yes.
24	looked at a large number of options of how to manage	24	Q. All right.
25	this anchorage problem because of missing U-bar, and	25	Now, after you provided that draft report on 14 May,
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1	this must have been one of the options that was around	1	there was a series of emails. Could we please go to,
2	at that time, yes.	2	first of all, J2/1669.
3	COMMISSIONER HANSFORD: But it doesn't specifically state,	3	A. It's on my screen.
4	or does it it doesn't specifically state that there	4	Q. Thank you.
5	are couplers? A. It doesn't specifically state there are couplers there,	5 6	Now, the first email is 22 May, from Leighton to Edward Tse, who I understand was Atkins B, although
6 7	that's correct.	7	I think he also had a role in Atkins A. What is said
8	COMMISSIONER HANSFORD: Okay. Thank you.	8	is:
9	MR PENNICOTT: What it does show, I think, Dr McCrae, is the	9	"As spoke, I disagree we put the 'missing U-bar'
10	red lines going from the EWL slab to the OTE slab, and	10	remedial in our ELS submission"
11	those bars bending upwards?	11	And that is a reference to the draft report that we
12	A. Yes. So unlike the previous one you've showed me,	12	were looking at a short while ago; do you agree?
13	Mr Pennicott, this one does show that this is	13	A. Yes. Yes, I agree.
14	an option to look at anchorage into the OTE slab rather	14	Q. Right.
15	than provide the anchorage just to the diaphragm wall.	15	" as BD do not know about this 'formally' and MTR
16	Q. Yes, and this was a slightly alternative proposal to	16	will reflect the changes in the coming DDC amendment
17	provide the anchorage that was lost as a result of the	17	submission.
18	missing U-bars?	18	Also the design changes are different from the
19	A. That's correct. As I said, we looked at quite a number	19	endorsed TWD-025C and DDC amendment submission.
20	of options at the time as to how to achieve that.	20	TWD-004B again, we only need to demonstrate to BD
21	Q. Yes. With a degree of hesitation, if you look at the	21	the minimum stiffness is used to match TWD-025C and the
22 23	annotation underneath the brownish shaded area, it says,	22	DDC amendment submission.
23 24	"OTE and EWL slab to be concreted concurrently"; do you see that?	23 24	Understand you will speak to Kevin Yip on the submission strategy, please give us a feedback
24 25	A. I do.	24	afterwards."
25	41. 1 40.	25	arter wards.

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1	And you were copied in on that email, Dr McCrae?	1	scheme and eventually it was finalised in PWD-59.
2	A. Yes, I was.	2	So my belief is that we wanted to keep that detail
3	Q. Then if we could go to 1668, on the following day, on	3	of PWD-59 and not put it in TWD-004, so it's very clear
4	the 23rd, it's the one in the middle of the page, from	4	which document held the detail and there was no
5	Betty Ng of Leighton to Edward Tse and to you:	5	confusion.
6	"Edward, Rob,	6	Q. Right. Can we then look at paragraphs 58 and 59 of your
7	Further to the discussion with Kevin yesterday	7	witness statement, where you refer to the other report,
8	evening, for the initial excavation down to minus	8	the permanent works design report, that was in the
9	0.5mPD, confirmed that we are not going to submit	9	course of preparation from the beginning of June to the
10	TWD-004B to BD for not to confuse BD and complicate the	10	final report of 9 July; do you see that?
11	issue.	11	A. I do see that.
11		11	
12	As we only need BD's approval to start the initial bulk excavation and the D-walls have not been loaded in	12	Q. Just to get confirmation of the date, can we just look at C29/21765.
	the initial stage, we will submit TWD-381 (open-cut		
14		14	If we can go on two pages to 67, please. So this is
15	situation) to include assessment to the D-wall	15	the PWD report, dated, as you say, 9 July 2015, albeit
16	checking up to minus 0.5mPD."	16 17	not submitted to BD until the end of July?
17	Do you see that?	17	A. Yes, that is the formal copy that we sent to Leighton
18	A. I do.	18	because we myself and WC Lee, in this case, have wet
19	Q. If we then go to 1667, at the bottom of the page, on	19	signed it.
20	27 May, Mr Tse writes back to Leighton saying:	20	Q. All right. If we look at this report on the final
21	"I have spoken to him and the approach is the same	21	two pages can we find the conclusion, please
22	as you said. But I will confirm with him if I put the	22	We'll move on. There's another point coming in
23	remedial proposal in the DDC submission, I need	23	a moment, Dr McCrae.
24	a formally instruction from MTR.	24	After the TWD report had been prepared back in June,
25	Regarding the contractor slab submission, I will	25	this report, we've seen, was 9 July. There was still
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1	take out section 1.3.6 about additional bottom rebar and	1	further discussion, as I understand it, about the
2	also the whole RC drawings for both part I and part II.	2	anchorage solution; is that right?
3	Report will be updated by today."	3	A. Yes, I believe that is the case.
4	Do you see that, Dr McCrae?	4	Q. If we look in your witness statement at paragraph 60,
5	A. I do see that, sorry, yes.	5	you refer to certain of those emails, and in particular
6	Q. We then go to paragraph 56 of your witness statement,	6	the email at B10/7515.
7	where you say:	7	So that's the first one on 21 July; do you see that,
8	"On 17 June 2015, team B submitted [for short]	8	Dr McCrae?
9	TWD-004B3"	9	A. I do.
10	A. I see that, yes.	10	Q. The one I think referred to in your witness statement
11	Q. We can look at it, if we need to, Dr McCrae, but I think		perhaps not. This is Mr Daynes writing to you.
12	you know as well as we do that in that submission,	12	A. I think it's WC Lee writing to Mr Daynes, isn't it?
13	paragraph 1.3.5 and figure 1.4 that we were looking at	13	Q. I beg your pardon, it's WC Lee writing to Mr Daynes,
14	a moment ago in the previous report, were omitted.	14	copying you in; do you see that?
15	A. Yes.	15	A. That's right, yes.
16	Q. In your witness statement, you say:	16	Q. And he says:
17	"I do not know the exact reason for this."	17	"Attached revised rebar arrangement to compensate
18	Having looked at those emails, does that shed any	18	the missing U-bars for the D-wall connection along the
	light on the reasons for the omission of the paragraph	19	east side"
19		20	Then the gridlines are mentioned.
19 20	and the figure?	20	
20	and the figure? A. Well, we were going through our series of options, as		-
20 21	A. Well, we were going through our series of options, as	21	"The details incorporated comments from both BD and
20 21 22	A. Well, we were going through our series of options, as I said before, to develop the anchorage, and what we	21 22	"The details incorporated comments from both BD and MTR/DC teams"
20 21	A. Well, we were going through our series of options, as	21	"The details incorporated comments from both BD and

36 (Pages 141 to 144)

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1	email from yourself this time to Brendan Reilly at MTR,	1	A. On 24 July, which was a Friday, Mr Reilly asked me late
2	copied to various people at Atkins, and you refer to	2	on the Friday to attend the MTR site offices. The issue
3	this in paragraph 62 of your witness statement.	3	was that they wanted to make the pour which I believe is
4	What you say is this:	4	called C1-1, which was the first pour in areas B and C,
5	"[Dear] Brendan,	5	and they wished to make this pour because there was
6	Following your discussion with CK Chan (RSE) on	6	an urgency I believe there was a milestone or
7	whether it is necessary to cast the EWL slab and OTE	7	something they wanted to make.
8	monolithically I confirm his conversation."	8	However, at that time, although the EWL area was
9	Were you party to the conversation, Dr McCrae?	9	ready to place steel and concrete, the OTE wasn't, so
10	A. Yes, I was in the room when the conversation was held.	10	they couldn't fulfil the requirement of casting them
11	It was a telephone conversation, and I was sitting with	11	both at the same time.
12	Mr Chan when he was on the telephone to Brendan.	12	Mr Reilly had three points he made to me. One was:
13	Q. You go on to say:	13	were all the permissions in place to allow the pour to
14	"That is in the BD letter of 4 December 2014 they	14	go ahead? The second one was: could they omit the
15	stated in comment A3 that construction joint should be	15	upstand or the kicker on the OTE? And the third point:
16	cast in accordance with PNAP APP-68."	16	was it necessary to pour the OTE at the same time as the
17	Is that a document that you're familiar with,	17	EWL or could they be poured a suggestion had been
18	Dr McCrae?	18	made by Leighton to delay the OTE pour on the basis that
19	A. I'm not familiar with it. I'm aware of it and I have	19	no loading would occur to the EWL slab requiring the
20	looked at it in the past few weeks, but I wouldn't say	20	anchorage to be needed, and the OTE slab would be poured
21	I'm familiar with it.	21	in time before that anchorage was needed.
22	Q. Right. You obviously knew about it when you wrote this	22	So they were the three points that Mr Reilly made to
23	email?	23	me on that Friday afternoon/evening. He asked me to
24	A. I was aware of it but the full connotation of it,	24	deal with that as a matter of urgency, and I took that
25	I couldn't say I wasn't that familiar with it.	25	to mean the next working day, which was the Monday. He,
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1		1	-
1	Q. All right. You go on to say:	1	however, took it to mean the Saturday; that he wished it
2	"Within this document clause 2(a) does state that	2	dealt with on the Saturday.
3	the structure should be cast monolithically unless unavoidable; in which case an alternative construction	3	Is that clear so far, Mr Pennicott, before I go on? Q. It is, but can you just give me one moment. Yes, okay.
45		4 5	
	detail must be submitted prior to approval. The concern in the PNAP is about water ingress at the joint.	5 6	Carry on. A. So, of the three issues that I just mentioned if
6 7		7	
	Therefore a detail showing the waterproofing has been submitted and discussed with BD showing waterproofing		I take the OTE kicker, first of all, or upstand wall both Atkins and I believe MTR would not accept that it
8 9	submitted and discussed with BD showing waterproofing including provision of a hydrophilic strip. This detail	8 9	was essential that that upstand wall was cast as part of
10	is understood to be accepted by BD."	9 10	the OTE. So that part didn't take wasn't part of the
11	Then you say this:	11	discussion, as far as I remember, on the Saturday.
11	"Therefore the RSE view is that it is acceptable to	12	What happened on the Saturday and this is
12	cast the OTE slab after the EWL slab providing it is	12	an aside, but why I remember it so well I had
14	cast before future activities which would further load	14	promised to go shopping with my wife and then go for
15	the structure, in particular dewatering or excavation	15	lunch with her in TST. When I got off the train in TST
16	below the EWL slab."	16	at about 10 o'clock, I realised there were quite
17	Dr McCrae, can you explain that sentence, please?	17	a number of missed calls from Mr Reilly on my phone.
18	A. Yes. Reading this now, I realise that I have conflated	18	Mr Reilly insisted that I had made an agreement to deal
19	two ideas in that email, and that wasn't my intention.	19	with it that Saturday and I should deal with it
20	There are two separate points there which we were aware		immediately. So I had to abandon my wife at that time
20	of at the time.	21	and it was a recurring problem with her for many months
22	In explaining this, could I turn to 24 July and	22	afterwards. That is why my memory is good, if I could
23	explain what happened on 24 July that then led to this	23	say so.
24	email?	24	I then went this must have been about 10 o'clock
25	Q. Please do, Mr McCrae, yes.	25	that Saturday morning to the Atkins office, which you
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1	may know is quite close to TST Station, and Mr Chan was	1	down, there were couplers retained in that area, because
2	there, CK was there. So I discussed the problem with	2	it was the first area to be poured, and indeed this must
3	CK, and, as you may know, CK was the head of the	3	have been sorted out over that weekend because the
4	structural department of Atkins at that time and	4	Monday would have been 27 July, and we know that the
5	somebody I would seek advice from on structural matters.	5	concrete was poured in that area on the 28th?
6	He was also very well aware of BD problems.	6	A. That's my understanding, yes.
7	So, to take the first problem, which was were the	7	Q. Right. Dr McCrae, as you said, and that's been
8	approvals in place, so Mr Chan CK knew that the	8	extremely helpful I think we now understand at last
9	matters raised in the BD letter, around APP-68, had been	9	what this email is all about this was referable to
10	discussed with BD and had been dealt with.	10	C1-1. Did it have any relevance to the remaining areas
11	The second point, which is whether you could pour	11	or not, or is your view that this was very much confined
12	the EWL slab because there's an urgency to do that to	12	to this particular area, for the particular reasons that
13	meet some requirement; and then four was the OTE slab.	13	you've given?
14	CK I must admit that I did agree with him as well	14	A. Yes. We wanted the pours to ensure that we could obtain
15	would accept in this one case, and only in this one	15	the monolithic behaviour we wanted, we wanted both the
16	case, because they could avoid loading the EWL slab	16	pours to happen at the same time. That was
17	(unclear words) the OTE slab, cast slightly later	17	a requirement to get the monolithic behaviour, but we
18	in time(unclear words)	18	allowed them one exception, and one exception only, and
19	MR PENNICOTT: Can you pause, please, Dr McCrae.	19	that was for this pour.
20	CHAIRMAN: The sound has gone problematic.	$\begin{vmatrix} 1 \\ 20 \end{vmatrix}$	Q. Right. And this had nothing to do with trimming down,
21	A. I apologise. I will try to speak slower.	21	nothing to do with through-bars; this was an area where
22	CHAIRMAN: Thank you.	22	couplers were retained, as we know?
23	MR PENNICOTT: Yes, please, just a bit more slowly.	23	A. That was our understanding. Yes, that is the case.
24	A. Where do you wish me to start again; by describing the	24	Q. Okay.
25	nature of the pours?	25	Sorry, sir, can I just have a moment, because
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	-		
1	Q. Let's start from the second point, which is whether you	1	I think that explanation has made a number of other
2	could pour the EWL slab because there's an urgency to do	2	questions redundant.
3	that to meet some requirement. Pick it up from there.	3	CHAIRMAN: Doctor, just bear with us for a moment or two.
4	A. Yes. So there's an urgency to meet this requirement.	4	WITNESS: Of course.
5	I can't remember exactly what it is. So the point was	5	MR PENNICOTT: I would just like, Dr McCrae, to go back to
6	that providing the anchorage didn't come into play, in	6	the PWD, the permanent works design, report that we
7	other words the EWL slab didn't rely on the anchorage,	7	touched on a moment ago. Could we go, if we've got B10,
8	we could delay slightly the pour of the OTE slab while	8	to B10/7324. Sorry, 7322, to just see the letter
9	Leighton got that area ready and constructed it, and it	9	submitting the document.
10	was these conditions. And the things that would cause	10	
4.4			Dr McCrae, you can see it's a letter of 30 July
11	the loading were dewatering or the excavation. So	11	2015, from the MTR to the Buildings Department,
12	the loading were dewatering or the excavation. So providing they did not happen, in this one and only in	11 12	2015, from the MTR to the Buildings Department, submitting, as we will see, the PWD-059A3 report; do you
12 13	the loading were dewatering or the excavation. So providing they did not happen, in this one and only in this one case, we could allow that sequence of pouring	11 12 13	2015, from the MTR to the Buildings Department, submitting, as we will see, the PWD-059A3 report; do you see that?
12 13 14	the loading were dewatering or the excavation. So providing they did not happen, in this one and only in this one case, we could allow that sequence of pouring to happen.	11 12 13 14	<ul><li>2015, from the MTR to the Buildings Department, submitting, as we will see, the PWD-059A3 report; do you see that?</li><li>A. I do see that, yes.</li></ul>
12 13 14 15	the loading were dewatering or the excavation. So providing they did not happen, in this one and only in this one case, we could allow that sequence of pouring to happen. CK also said, of course, that it would be the	11 12 13 14 15	<ul><li>2015, from the MTR to the Buildings Department, submitting, as we will see, the PWD-059A3 report; do you see that?</li><li>A. I do see that, yes.</li><li>Q. The report starts at 7324.</li></ul>
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12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>the loading were dewatering or the excavation. So providing they did not happen, in this one and only in this one case, we could allow that sequence of pouring to happen.</li> <li>CK also said, of course, that it would be the decision of the competent person at the end, so the matter should be referred to Jason Wong.</li> <li>Q. Right.</li> <li>A. So I accept I have conflated two points in that answer, but there are two separate points there.</li> <li>Q. Right. Just so that we've got it clear, this email and the situation that had arisen was specifically referable to area C1-1?</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>2015, from the MTR to the Buildings Department, submitting, as we will see, the PWD-059A3 report; do you see that?</li> <li>A. I do see that, yes.</li> <li>Q. The report starts at 7324.</li> <li>A. Yes, I see that.</li> <li>Q. Its primary purpose was, as we know, to address the issues that had arisen regarding the change and the missing U-bars, and so forth?</li> <li>A. Yes, that's my understanding.</li> <li>Q. If you could go, please, to page 7333, towards the bottom of the page we see a heading, "Modification of rebar connection slab/D-wall"; do you see that?</li> </ul>
12 13 14 15 16 17 18 19 20 21 22	<ul> <li>the loading were dewatering or the excavation. So providing they did not happen, in this one and only in this one case, we could allow that sequence of pouring to happen.</li> <li>CK also said, of course, that it would be the decision of the competent person at the end, so the matter should be referred to Jason Wong.</li> <li>Q. Right.</li> <li>A. So I accept I have conflated two points in that answer, but there are two separate points there.</li> <li>Q. Right. Just so that we've got it clear, this email and the situation that had arisen was specifically referable</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>2015, from the MTR to the Buildings Department, submitting, as we will see, the PWD-059A3 report; do you see that?</li> <li>A. I do see that, yes.</li> <li>Q. The report starts at 7324.</li> <li>A. Yes, I see that.</li> <li>Q. Its primary purpose was, as we know, to address the issues that had arisen regarding the change and the missing U-bars, and so forth?</li> <li>A. Yes, that's my understanding.</li> <li>Q. If you could go, please, to page 7333, towards the bottom of the page we see a heading, "Modification of</li> </ul>

	Page 153		Page 155
1	"To provide the full tension anchorage for the slab	1	one was cast later in this case it's the OTE was cast
2	rebar, the rebar are extended into the OTE slab/wall	2	later the monolithic behaviour might occur because
3	with full tension anchorage lap length, [at] end of the	3	the OTE is not there, is not in place, and we would lose
4	bar with a standard bend-up hook as recommended in the	4	the anchorage we are getting. So by casting them at the
5	Concrete Code 2013. To comply with this principle,	5	same time, we are assure that everything is in place
6	the OTE slab/wall must be concrete	6	monolithically, joined together, for when the behaviour
7	monolithically/concurrently (ie at the same time) with	7	is needed.
8	the 3 metre EWL slab and provide adequate lap length	8	Q. All right.
9	details for future OTE wall construction, detail refer	9	COMMISSIONER HANSFORD: Sorry, just so I can understand that
10	to appendix F of this report."	10	further, Dr McCrae. So you are saying "monolithic" is
11	Now, in the context of this report, Dr McCrae, what	11	a reference to the behaviour, the structural behaviour
12	was meant by "the OTE slab/wall must be concrete	12	of the finished structure, as opposed to it being
13	monolithically/concurrently with the 3 metre EWL slab"?	13	necessarily cast in one piece? Is that what you are
14	A. So what we wanted to do was to ensure that all parts	14	saying?
15	acted together, so acted monolithically, so we had	15	A. Yes, I'm saying it's not cast in one piece. It's joined
16	a monolithic behaviour (unclear words).	16	together. But the time factor is that we wished both
17	CHAIRMAN: Sorry, bear with us just a minute.	17	the EWL section and the OTE section to be cast at the
18	MR PENNICOTT: Sorry, Dr McCrae, the sound has dropped off	18	same time.
19	again.	19	COMMISSIONER HANSFORD: Yes. I understand the time part,
20	CHAIRMAN: If we could start off again, Doctor, please, with	20	and hence it being cast concurrently, and I understand
21	what you wanted to do was to ensure that all parts acted	21	the reason for that. But the use of the term
22	together, I think.	22	"monolithic" is a reference to the structural behaviour
23	A. That is correct, sir, yes. We wanted all parts to act	23	and it acting monolithically; is that correct?
24	together in a monolithic behaviour. In order to ensure	24	A. That was my understanding at the time and it's still my
25	that happened, we needed the EWL slab and the OTE slab	25	understanding now.
	D 154		
	Page 154		Page 156
1	to be concreted at the same time.	1	Page 156 COMMISSIONER HANSFORD: Okay. That's helpful. Thank you
1 2	-	1 2	-
	to be concreted at the same time.		COMMISSIONER HANSFORD: Okay. That's helpful. Thank you.
2	to be concreted at the same time. If that didn't happen, we had concern and we knew	2	COMMISSIONER HANSFORD: Okay. That's helpful. Thank you. MR PENNICOTT: Dr McCrae, just to test that proposition
2 3	to be concreted at the same time. If that didn't happen, we had concern and we knew the EWL slab would always be concreted first we had	2 3	COMMISSIONER HANSFORD: Okay. That's helpful. Thank you. MR PENNICOTT: Dr McCrae, just to test that proposition a little bit further, could we just look at the final
2 3 4	to be concreted at the same time. If that didn't happen, we had concern and we knew the EWL slab would always be concreted first we had a concern that if the OTE slab was cast at a later date,	2 3 4	COMMISSIONER HANSFORD: Okay. That's helpful. Thank you. MR PENNICOTT: Dr McCrae, just to test that proposition a little bit further, could we just look at the final version of the TWD report that we touched on earlier,
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	Page 157		Page 159
1	correctness it was my delegate who actually signed this.	1	on the left-hand side where the hand is, if you can
2	Q. Right.	2	blow that up, please; that's fine, thank you it says
3	A. But to move now to the point, I don't know why that was	3	here, you will see, on the section it relates to the
4	there. Clearly, what we required was a PWD-59. With	4	diaphragm wall connection east side, EH45 to EH109, and
5	hindsight, that should have been omitted. I can't	5	then the words at top-right on the section, "Section of
6	understand why it was there. But it is the document	6	OTE wall concrete cast together with (at the same time
7	PWD-59 and the working drawings that accompanied that	7	as) EWL slab".
8	which were what was issued for construction.	8	Do you give that the same meaning as you do in the
9	Q. Right. I hear your explanation. The short point is	9	PWD report that we've just looked at?
10	that they are irreconcilable, really, aren't they,	10	A. Yes.
11	Dr McCrae? You can't reconcile the two positions in the	11	Q. Dr McCrae, were you aware at any time during your
12	two reports, taking the words at face value?	12	carrying out your duties and responsibilities in
13	A. Absolutely. But PWD-59 is the document with the	13	relation to team A and/or team B of the trimming down of
14	drawings for construction in it, so in my view, that has	14	the east diaphragm wall for the purposes of putting or
15	precedence over this statement.	15	substituting through-bars for the coupler design?
16	Q. Okay.	16	A. There was one TQ for one particular panel where it was
17	CHAIRMAN: Doctor, could I just ask you, is that because	17	asked, but only that one particular case in one
18	drawings in the profession, completed drawings/designs,	18	particular panel was my only recollection.
19	will always have precedence over any statement of the	19	Q. That's TQ34, is it, Dr McCrae?
20	kind that you're looking at now?	20	A. Yes, I believe it's TQ34.
21	A. Yes, sir. In my experience, the drawings are what the	21	MR PENNICOTT: Right. Okay. Thank you very much,
22	site needs for construction, so they have precedence.	22	Dr McCrae. I have no further questions. Thank you.
23	There obviously may be occasions where the site	23	CHAIRMAN: Leightons?
24	recognised there may be contradictions from some other	24	MR SHIEH: No questions.
25	information that they have. In that case, what they	25	MR TO: No questions from China Technology.
	Page 158		Page 160
1	should do is raise an RFI, a request for information, to	1	CHAIRMAN: MTR?
2	get it clarified. But in my view the drawings always	2	MR BOULDING: No questions, sir.
3	have precedence.	3	CHAIRMAN: Government?
4	CHAIRMAN: Thank you.	4	MR CHOW: No questions from government.
5	MR PENNICOTT: Dr McCrae, would I be right in saying that	5	CHAIRMAN: Thank you.
6	your explanation or support is lent to your	6	Peter, any more questions?
7	explanation, if you go to page B7277, which is	7	COMMISSIONER HANSFORD: Nothing else from me.
8	paragraph 1.3.5 of this report, where, in the second	8	Re-examination by MR CONNOR
9	sentence under 1.3.5, it says:	9	MR CONNOR: Thank you.
10	"The justification of reinforced concrete design for	10	Dr McCrae, just very briefly, if I may. Vincent
11 12	the as-built reinforcement detail at the interface	11	Connor returning on behalf of Atkins. You answered some
12	between the diaphragm wall and the EWL slab between gridlines 22 to 40 because of the missing U-bar in	12 13	questions of course from Mr Pennicott a moment ago with reference to PWD-59, as you will recall. If you might
13 14	diaphragm wall can refer to report no. PWD-59A1	13 14	have that back in front of you again. That's at B7322.
14	submitted by the contract."	14	I think that is the letter or appears to be a letter
16	A. Yes, I would agree with that.	16	from MTR submitting that report to the Buildings
17	Q. Could I ask you, please, to be shown I think we're	17	Department. Do you see that?
18	still in the same file, B10 7360.	18	A. I do see that, yes.
19	Do you remember, Dr McCrae, a design amendment known		Q. Thank you. I think you looked at this just a moment
20	as DAmS 310?	20	ago.
21	A. Yes, I'm aware of that, yes.	20	In response to questions from Mr Pennicott and from
22	Q. If we could go, please, to 7428, there are a couple of	22	the professor, you were explaining your position and
23	drawings that are included a number of drawings that	23	understanding regarding the design requirement of
24	are included within DAmS 310, and if you could look at,	24	achieving monolithic behaviour of the slabs with the
25	on the left-hand side, please, the typical detail right	25	diaphragm wall in their completed state. Do you recall?

	Page 161		Page 163
1	A. Yes.	1	particular then the detail begins on pages 7356 and
2	Q. Thank you. Just for the sake of completeness, if you	2	7357.
3	turn to page B7331, in case this helps at all, this is	3	Do you see that?
4	a section 2 that begins sorry, B7331, and if you go	4	A. I do, yes.
5	to the top of the page, please; thank you there is	5	Q. Is there anything in appendix F which helps us
6	a paragraph that begins "Design evaluation of the	6	understand whether or not there is any change to the
7	as-built connection detail", and appreciating this is	7	connection details proposed in PWD-59 from the coupler
8	a section dealing with the connection detail in	8	arrangement?
9	particular, but it reads as follows:	9	A. I think it's in line with the coupler arrangement, as
	-	10	described in PWD-59.
10	"Although the diaphragm wall steel terminates at the		
11	top of the diaphragm wall without a lap it is difficult	11	Q. Thank you. So, really to draw your evidence together,
12	to envisage a realistic failure mode. The reason for	12	if I may attempt, Dr McCrae, in terms of your
13	this is because the slab is so stiff that it will behave	13	involvement in the project, it would seem that the only
14	monolithically with the wall so that any rotation would	14	awareness you had of a D-wall trimming arose from
15	create a horizontal crack in the diaphragm wall at the	15	a proposal, amongst others, which was being considered
16	soffit level"	16	around about February 2015, in what we refer as to
17	Please let us know if it assists at all: is this	17	B10/7322, namely TWD-025C1?
18	passage we are reading from here also reflective of the	18	A. Yes, correct.
19	design intent that the slabs and the diaphragm wall, in	19	Q. And in addition, as you told Mr Pennicott a moment ago,
20	their completed state, would behave monolithically?	20	that trimming down which arose as a result of TQ34?
21	A. Yes, that's correct. It goes on to further things but,	21	A. And the proposal in TQ34, yes, that's correct.
22	yes, that is correct.	22	Q. And with the exception of the email enquiry that we
23	Q. Thank you. While we are on this document, there is	23	spent some time looking at at the end of July 2015,
24	I think, if you move through the document on to	24	around about the time of the disturbed lunch
25	page B7333, you will see towards the end of that page	25	arrangement, if you recall
	Page 162		Page 164
1	a short paragraph beginning, "Modification of rebar	1	A. I do recall.
2	connection slab/D-wall", and the paragraph begins:	2	Q and perhaps still paying for.
3	"To provide the full tension anchorage for the slab	3	A. Absolutely.
4	rebar, the rebar are extended into the OTE slab/wall	4	Q. With the exception of that, Dr McCrae, which appeared to
5	with full tension anchorage lap length, end of the bar	5	relate to EM72 and EH74, are you aware of any query
6	with a standard bend-up hook as recommend the in the	6	being raised with Atkins in relation to the requirement
7	Concrete Code 2013."	7	to pour the slabs concurrently, ie at the same time?
8	Then it goes on:		A. No, that's the only recollection I have.
9	"To comply with this principle, the OTE slab/wall	9	Q. Finally, you recall Mr Pennicott taking you, for the
10	must be concrete monolithically/concurrently (ie at the	10	sake of completeness, to the DAmS 310 submissions in
11	same time) with the 3 metre EWL slab and provide	11	August of 2015, as submitted later that year. At that
11	adequate lap length details for future OTE wall	12	time, as far as the knowledge being conveyed to you is
12	construction", with a reference to appendix F.	13	concerned, you were still looking at a configuration of
13	Do you see that?	14	the D-wall that did not involve trimming down, other
14	A. I see that.	15	than that which you have described to us, nor the use of
	Q. Thank you. Is that, in your evidence, also consistent	16	through-bars, save for the evidence you have given; is
16		17	that so?
17	with your reading of the formation of the slabs at the	17	A. That's correct.
18	same time or concurrently, with a view to achieving	10	MR CONNOR: Thank you very much, Dr McCrae. Subject to any
19	monolithic behaviour of the end product?		final questions from the Chairman or the professor,
20	A. Yes, that is in line with my understanding, yes.	20	
21	Q. Thank you. Just to conclude that, there is a short	21	I have no further questions for you, but I will hand you
22	reference at the end of that paragraph I've just helped	22	back to them.
23	you through to appendix F, that's F for frank, and if we	23	COMMISSIONER HANSFORD: Nothing else from me.
24	turn to that appendix, please, which we will find, if	24	CHAIRMAN: Thank you very much indeed, Doctor. It's been
25	you bear with me, please, at page B7355, and in	25	very good of you.

Commission of Inquiry into the Diaphragm Wall and Platform Slab Construction Works at the Hung Hom Station Extension under the Shatin to Central Link Project

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1	WITNESS: Thank you.	1	Mr Kevin Harman from Leightons, and then we will after
2	CHAIRMAN: I dread to think what time you had to get up to	2	that return to the government witnesses.
3	present yourself, but thank you. We're obliged, and	3	CHAIRMAN: Good. Thank you very much indeed. We have
4	your evidence is now completed.	4	finished not too bad, actually.
5	WITNESS: Thank you very much.	5	MR PENNICOTT: Better than I anticipated.
6	MR CONNOR: Thank you. Thank you, Professor. Thank you,	6	CHAIRMAN: Yes. Excellent. Thank you very much indeed.
7	Dr McCrae.	7	Tomorrow morning, 10 am. Thank you.
8	(The witness was released)	8	MR PENNICOTT: Thank you.
9	That concludes such evidence from Atkins as we have	9	(5.48 pm)
10	available today, and with that I pass you back to	10	(The hearing adjourned until 10.00 am the following day)
10	Mr Pennicott.	11	(The hearing aujourned until 10.00 and the following day)
11	MR PENNICOTT: Sir, our next Atkins witness due to be called		
12		12	
	first thing tomorrow morning is Mr Chan Chi Kong. However, I don't believe that the Commission will have	13	
14	,		
15	any questions for him, in the light of the evidence we	15	
16	have just heard from Dr McCrae. So unless there's	16	
17	anybody behind me who thinks that it is vital or indeed	17	
18	necessary to call Mr Chan Chi Kong, I would propose that	18	
19	he need not be called. I know he has just come back	19	
20	from holiday today and was no doubt looking forward to	20	
21	coming here tomorrow. So if everybody else is content	21	
22	that he need not be called, then his witness	22	
23	statement	23	
24	CHAIRMAN: Let me just avoid any ambiguity here.	24	
25	MR PENNICOTT: Yes.	25	
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1	CHAIRMAN: Leightons, would you wish him to be called?	1	INDEX
2	MR PENNICOTT: It may be that other people need a bit of	2	PAGE
3	time to think about it, in which event I understand	3	MR CHAN FAN, FRANK (affirmed in Punti)2
4	that.	4	Examination-in-chief by MR KHAW2
5	CHAIRMAN: But at this moment in time, is there anybody who	5	Examination by MR PENNICOTT8
6	feels that they definitely would like to	6	Cross-examination by MR SHIEH15
7	MR SHIEH: Not for us. At the moment, not for us.	7	Cross-examination by MR SHIEH15
8	CHAIRMAN: Thank you very much. We will work on the basis,	8	(The witness was released)25
9	then, that he will not be called, but should anybody,	9	MR LI TZE WAI, RALPH (sworn in Punti)25
10	any party, on reflection, wish to call him, then	10	Examination-in-chief by MR KHAW25
11	obviously arrangements will be made.	11	Examination by MR PENNICOTT26
12	MR PENNICOTT: Yes, sir. Thank you very much.	12	Cross-examination by MR BOULDING
13	MR CONNOR: Thank you very much, sir. I very much	13	(The witness was released)42
14	appreciate Mr Pennicott raising that matter.	14	MR LEUNG MAN HO, JONATHAN (affirmed in Punti)42
15	Mr Chan is back from holiday. He is ready to give	15	Examination-in-chief by MR KHAW42
16	evidence if that is required. It may be something that,	16	Examination by MR PENNICOTT45
17	if convenient, we might revisit tomorrow so that we	17	Re-examination by MR KHAW60
18	might let him know one way or the other. But, as	18	(The witness was released)62
19	matters stand, I will not require his attendance at	19	MR PAULINO LIM (affirmed)67
20	10 am tomorrow morning.	20	Examination by MR PENNICOTT67
21	CHAIRMAN: No, that's correct.	21	Questioning by THE COMMISSIONERS96
22	MR PENNICOTT: That's fine.	22	Cross-examination by MR SO103
1		22	Cross examination by MD KIIAW 107
23	CHAIRMAN: Thank you.	23	Cross-examination by MR KHAW107
23 24 25	CHAIRMAN: Thank you. MR PENNICOTT: In which event, sir, if I'm reading the timetable correctly, the next witness will in fact with	23 24	Cross-examination by MR KHAW107 Cross-examination by MR BOULDING116 (The witness was released)118

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