	Page 1		Page 3
1	Tuesday, 8 October 2019	1	say, well, full-time continuous supervision is
2	(10.03 am)	2	exclusively the province of COI 1 and not something also
3	MR PENNICOTT: Sir, good morning. Good morning,	3	in issue in COI 2. We can identify, I hope we don't
4	Prof Hansford.	4	have to, bits in Mr Rowsell's expert report where he
5	Sir, before we start with the evidence of Mr Wall,	5	touches upon this concept and where he incorporated part
6	can I just raise one procedural matter which may be of	6	of his report in COI 1, those parts touching upon the
7	some concern to the Commission. Sir, in a nutshell,	7	concept of full-time continuous supervision.
8	it's this. During the course of the cross-examination	8	So, yes, we are seeking to address the Commission on
9	by Mr Shieh of Mr Huyghe on Friday afternoon, some	9	that matter as part of COI 2 and we would respectfully
10	questions were asked regarding the meaning or definition	10	say that we should be allowed to do so.
11	of, if I can put it for short, "full-time and continuous	11	CHAIRMAN: Yes. Thank you very much.
12	supervision", for shorthand. I note also that in the	12	Mr Boulding, do you have any comments that you would
12	slides that have been prepared by Mr Wall, and indeed in	13	wish to make?
13	Mr Wall's report, further evidence on that particular	14	MR BOULDING: Not at the moment, sir. I've only just been
14	topic is included.	15	made aware that this point is in issue.
16	Sir, as you will know and recall, the interim report	16	CHAIRMAN: All right.
10	that you produced back in February contains a number of	17	MR BOULDING: So it may well be that I will be given some
17	paragraphs, indeed I think a whole chapter, on this	18	instructions over the coffee break or perhaps over
18 19	question of supervision and inspection of the coupler	19	lunch, in which case I will seek to address you.
20	installation.	20	CHAIRMAN: All right.
20		20	Mr Khaw?
21 22	It struck me that in relation to that particular	21	MR KHAW: Nothing at the moment.
22	topic, Leightons might be seeking to reopen or at least	22	CHAIRMAN: Mr Clayton?
	re-run the arguments that they were running particularly	23 24	MR CLAYTON: May I just say this, sir: my understanding was
24 25	in their closing submissions for the first part of the Inquiry.	24	that the Commission itself accepted that the interim
23	inquiry.	25	that the Commission risen accepted that the internit
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	Page 5		Page 7
1	indicated, the report is interim.	1	MR PENNICOTT: Some of us do and some of us don't, but the
2	The problem that you have just alighted upon, sir,	2	majority don't, so it's difficult to say.
3	is one that I've looked at over the weekend break,	3	All I can say, and it seems to me a matter of common
4	having appreciated that Mr Shieh probably would be	4	sense, is that if amongst the redacted parts there are
5	adopting the position he's adopted this morning. That	5	findings, albeit interim findings, of the Commission; if
6	is, as you rightly say, in chapter 8 of the interim	6	there are, whether they be of fact or of law; then, if
7	report, there is a series of redactions that have been	7	one is seeking to reopen the matter and argue it, then
8	made. Sir, if you need to explain certainly for the	8	one should be entitled to see everything that is there.
9	purposes of the public why that has happened, I invite	9	Sir, can I also say this, that certainly from the
10	you to do so, sir.	10	Commission's legal team's point of view, we still view
11	But obviously these are redactions that go to the	11	this as primarily a matter of legal submission, what is
12	topic of full-time and continuous supervision, and it	12	the correct interpretation of the various clauses that
13	seems to me, with respect, that if Mr Shieh is going to	13	deal with supervision, full-time and continuous
14	reopen or seek to reopen the arguments, then those parts	14	supervision, and the like. Yes, one doesn't preclude
15	of chapter 8 in the interim report should be unredacted	15	entirely, perhaps, the project managers, insofar as it's
16	and everybody, including Mr Shieh, Mr Clayton and myself	16	relevant, expressing view about perhaps normal practice,
17	should be able to see the full panoply of what's in that	17	although that seems to me to be on the fringes of
18	chapter in unredacted form.	18	project management. But primarily this is a legal issue
19	Sir, I understand that there is a process which will	19	and will primarily, in my submission, be a matter of
20	need to be gone through to achieve that, because my	20	further submissions by ourselves, by Leightons and the
21	understanding of the situation, albeit rather basic, is	21	other parties, at the end of the day. I don't see any
22	that it is the ultimate call of the DoJ in the first	22	necessity, any urgency, to have the passages redacted
23	instance, the government, as to what has been redacted,	23	here and now, as it were. We can proceed with Mr Wall
24	but it seems to me with respect also that the Commission	24	and Mr Rowsell.
25	can rightly go to those responsible for the redactions	25	Sorry, sir.
	Page 6		Page 8
1			
1	and say in terms, in order to be able to deal with this	1	(Tribunal conferring)
2	and say in terms, in order to be able to deal with this point properly, these paragraphs need to be unredacted.	1 2	(Tribunal conferring) CHAIRMAN: Mr Shieh, you, I'm sure, appreciate the
2	point properly, these paragraphs need to be unredacted.	2	CHAIRMAN: Mr Shieh, you, I'm sure, appreciate the
2 3	point properly, these paragraphs need to be unredacted. As I say, I'm not, I'm afraid, au fait with the	2 3	CHAIRMAN: Mr Shieh, you, I'm sure, appreciate the difficulty that we have. The last thing that we wish to
2 3 4	point properly, these paragraphs need to be unredacted. As I say, I'm not, I'm afraid, au fait with the process which will have to be gone through to bring that	2 3 4	CHAIRMAN: Mr Shieh, you, I'm sure, appreciate the difficulty that we have. The last thing that we wish to do is to have aspects of our interim report, which we
2 3 4 5	point properly, these paragraphs need to be unredacted. As I say, I'm not, I'm afraid, au fait with the process which will have to be gone through to bring that about, but it does seem to me necessary. Of course	2 3 4 5	CHAIRMAN: Mr Shieh, you, I'm sure, appreciate the difficulty that we have. The last thing that we wish to do is to have aspects of our interim report, which we obviously know about because we are the authors of those
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	Page 9		Page 11
1	MR SHIEH: Can I just assure the Commission that we do not	1	MR PENNICOTT: Sir, I don't think there is anything between
2	seek to see any unredaction before proceeding with the	2	Mr Shieh and I. We are certainly keen to proceed with
3	evidence and we don't want to be seen to be or we don't	3	Mr Wall and Mr Rowsell afterwards; then, given the
4	actually want to hold things up. The redaction, as	4	indication that's been given this morning, I would
5	I understand it, is because certain matters said in the	5	certainly suggest that steps be taken to get the
6	report may be regarded as impacting upon certain	6	relevant sentences and paragraphs unredacted on this
7	investigation or one knows not, and somehow the DoJ	7	particular topic, and if necessary I can agree with
8	advising the Chief Executive the DoJ wearing	8	Mr Shieh and others as to precisely which paragraphs
9	a different hat, not the DoJ instructing Mr Khaw behind	9	they are, and we will see what happens.
10	me has given some advice presumably that certain	10	CHAIRMAN: Yes. Thank you very much.
10	parts need to be redacted. If one has to revisit that	10	Subject to what Mr Boulding and/or Mr Khaw and/or
11	-	11	Mr Clayton may wish to say by way of final submissions,
12	redaction, I accept one needs time.		
	But for our part, we do not see this exercise as	13	I am inclined to let this matter proceed by way of
14	some kind of an appeal or poring over what has been said	14	questioning because, number one, our report is
15	in the interim report and focusing on this sentence or	15	an interim report; number two, supervision, what it did
16	that. That was not the approach. In fact, the	16	mean to those actually doing it, what it should mean and
17	cross-examination I conducted, and also Mr Wall's slides	17	what in respect of future work it should mean, these are
18	and presentation, in no way depended upon looking at	18	all issues that lie at the very centre of this Inquiry.
19	precisely what the interim report may or may not have	19	And the project management aspect of this, at the end of
20	said. We focus on the evidence that has been given.	20	the day, may well be, without doing any disrespect to
21	So it is not some kind of an appeal process where	21	all the other experts, the legacy of this Inquiry, the
22	one has to somehow criticise or find fault in what may	22	real legacy and true legacy, and I think to take steps
23	or may not have been said in the interim report. We	23	which act as a diminution of this particular subject
24	look at the evidence which we can all see.	24	will not assist the Inquiry.
25	So we are content to proceed without actually seeing	25	So I'm inclined to let Mr Shieh proceed. I think
	Page 10		Page 12
1	those parts of the interim report which have been	1	it's a sensible compromise that we have reached in
2	redacted. For our part, we don't know what they have	2	respect of redaction, and it's just subject to any final
3	said, whether they may or may not be critical of	3	comments that counsel may wish to make.
4	Leighton or whether they may be exculpatory of Leighton.	4	Mr Boulding, anything at all?
5	We know nothing about that. But it would obviously	5	MR BOULDING: No, sir. Without having taken instructions,
6	help, if the Commission is so minded, to have them	6	I'm bound to say that sounds eminently sensible to me.
7	unredacted at a later stage, so that, let's say, when we	7	CHAIRMAN: Good. Thank you.
8	prepare our submissions on project management, we may	8	Mr Khaw?
9	actually say, "Aha, okay, having looked at the	9	MR KHAW: Nothing to say at this stage.
10	evidence well, we now know what the interim report	10	CHAIRMAN: Mr Clayton?
11	actually has said, we can be more focused in our	11	MR CLAYTON: No.
12	submission." But that is for a later day. For the	12	CHAIRMAN: Mr Shieh, you have your answer on the basis as we
13	present	12	have debated it.
14	CHAIRMAN: We can do that. What the answer will be, we		MR SHIEH: Thank you.
15	don't know, obviously, but we can and will, if we	15 16	This morning, it is the turn of Leighton to call its
16	proceed on this basis, then write to the Department of	16 17	project management expert, Mr George Wall, who is now in
17	Justice and explain that these portions will have to be	17	the witness stand. He will take the oath, as
18	redacted in order to ensure full and fair final	18	I understand.
19	submissions.	19	MR GEORGE WILLIE WALL (sworn)
20	MR SHIEH: But the short answer is that in terms of	20	Examination-in-chief by MR SHIEH
21	progressing with the hearing and dealing with the	21	Q. Good morning, Mr Wall.
22	evidence, we do not believe that we need to see any	22	A. Good morning.
23	unredacted parts of the interim report for us to be able	23	Q. For the purpose of these proceedings, you have prepared
24	to proceed.	24	an expert report, which we can find in the ER bundle, in
25	CHAIRMAN: Yes, thank you.	25	the COI 2 bundles. It should now be in front of you in

	Page 13		Page 15
1	paper form and also in front of you on the monitor. You	1	myself. My name is George Wall. I spent the first
2	can choose whichever one you feel more comfortable	2	part, the initial part of my career, working in the UK
3	reading.	3	for contractors, then a little more than a decade after
4	A. Thank you.	4	that in Hong Kong, working principally for contractors
5	Q. It is entitled, "Response to Steve Rowsell's report on	5	as well as a design company. Since then, I've sorry,
6	project management of the construction works at and near	6	as working for contractors, I was working as a site
7	the Hung Hom Station", and you set out your views,	7	engineer and a project manager. Following on from that,
8	together with your curriculum vitae and experience.	8	I've moved into principally working as a project manager
9	Do you confirm that you are prepared to put forward	9	as well as being involved in dispute resolution process
10	the content of this report as your evidence in this	10	with claims for projects, support for arbitration,
11	Commission of Inquiry?	11	litigation and the like.
12	A. Yes, I can confirm that.	12	Moving on to my presentation. This is principally
13	Q. Also, I understand you have prepared a short	13	going to cover three areas: where I disagree with
14	presentation to be given to the Commission for the	14	Mr Rowsell's opinion, where I generally agree with
15	purpose of elaborating certain parts of your report.	15	Mr Rowsell's opinion but with some reservations, and
16	A. That's correct, yes.	16	then my views on where systems of monitoring and control
17	Q. Let me just explain to you what I propose to you.	17	could perhaps be improved.
18	I would invite you to go through your presentation or	18	Speaking about general disagreement Mr Rowsell,
19	synopsis, and then counsel for the Commission, the	19	I believe, is of the view that the project management
20	gentleman in front of me, would ask you some questions,	20	plan is too generic and should be more detailed.
20	followed by counsel for the other parties. At any time,	20	I disagree with that. I think that has been set by MTR
22	the Commission may have their own questions to be put to		at an appropriate level. I think it's a strategic
23	you. After all that, if I think it necessary, I may	23	document. It sets out the general approach that should
23	have some questions to put to you in re-examination. So	24	be adopted for the management of the SCL project or
25	you have a few rounds of questions to come.	25	scheme. Then I think that's a reasonable and sensible
	Page 14		Page 16
1	But for the time being can I propose that you go	1	approach that they have adopted.
1 2	But for the time being can I propose that you go through your synopsis?	1 2	approach that they have adopted. Mr Rowsell talks about the engineer being
2	through your synopsis?	2	Mr Rowsell talks about the engineer being
2 3	through your synopsis? A. Certainly.	2 3	Mr Rowsell talks about the engineer being responsible for the management of resources on projects,
2	<ul><li>through your synopsis?</li><li>A. Certainly.</li><li>Q. Yes, there is also a joint statement of project</li></ul>	2 3 4	Mr Rowsell talks about the engineer being responsible for the management of resources on projects, in particular in relation to the inspectorate staff.
2 3 4 5	<ul><li>through your synopsis?</li><li>A. Certainly.</li><li>Q. Yes, there is also a joint statement of project management experts, part of which you had associated</li></ul>	2 3 4 5	Mr Rowsell talks about the engineer being responsible for the management of resources on projects, in particular in relation to the inspectorate staff. I think that is not correct. It's not part of his
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	Page 17		Page 19
1	concerns about the standard of inspections. I've seen	1	and the contractor administrator.
2	no evidence that would suggest that there's a pervasive	2	When it comes to control and quality control for
3	problem with the quality of the inspectorate staff or	3	reinforcement deliveries to site, I believe that there
4	the quality of the inspections that they have carried	4	is no need for us to look at implementing additional
5	out. I would disagree on that point.	5	procedures. From the powers that the contract
6	Mr Rowsell talks in his report about the need to	6	administrator already has, I think they are adequate in
7	plan ahead and to have programmes in place so that	7	terms of enforcing the contractor's quality procedures,
8	resources can be adapted to suit the plan of works.	8	QA plan, ensuring that there are proper processes in
9	I think, to me, that is impractical and unrealistic.	9	place for controlling reinforcement deliveries to site
10	You need to have a large enough pool of inspectorate	10	and the testing of that reinforcement.
11	staff that you can draw on them as and when inspections	11	Moving on to improvements and recommendations.
12	take place, but I think it is, as I say, impractical and	12	I think all of the three experts are in agreement that
13	unrealistic for you to have some level of dynamic	13	the current antiquated the current RISC form
14	resourcing on a project that would enable you to	14	procedure is antiquated and it needs to be digitised.
15	increase and decrease inspectorate resources as and when	15	I think perhaps the procedure itself is adequate; it's
16	necessary. That's just not going to work for me.	16	the paper process behind it is where the problems lie.
17	I'm of the view that the issue with regard to	17	I think there needs to be a review of the NCR and
18	full-time and continuous supervision and the QSP only	18	audit procedures and their implementation. At the
19	applied to couplers with a ductility requirement, as	19	moment, PIMS suggests that perhaps for
20	they were specified in the drawings. And, as I say, in	20	documentation-related issues it's not necessarily
21	relation to ductility requirement, this information or	21	appropriate to raise an NCR. I disagree with that
22	identifying where these types of couplers apply, you	22	personally.
23	would need to go back and refer to the designer's	23	I think there needs to be more emphasis placed on
24	drawings to establish where these locations are.	24	interface management and how risks are interfaces are
25	Continuing on with areas of general disagreement.	25	dealt with by all of the stakeholders that are involved.
	Page 18		Page 20
1	Page 18 As I say, when it comes to full-time and continuous	1	Page 20 I think, going back to the lessons learned, we need to
1 2		1 2	-
	As I say, when it comes to full-time and continuous		I think, going back to the lessons learned, we need to
2	As I say, when it comes to full-time and continuous supervision, I'm of the view that this does not mean	2	I think, going back to the lessons learned, we need to review failures and investigate problems to ensure that
2 3	As I say, when it comes to full-time and continuous supervision, I'm of the view that this does not mean that there is someone watching the operatives carrying	2 3	I think, going back to the lessons learned, we need to review failures and investigate problems to ensure that these do not continually reoccur.
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	Page 21		Page 23
1	A. Yes.	1	Q. Right. Was that a recent engagement?
2	Q. Now, I've got a few questions for you and I think others		A. No. I think that was six or seven years ago.
3	have as well.	3	Q. All right. And that's the only other instance, is it?
4	Mr Wall, first of all, your expertise, you mentioned	4	A. That's correct, yes.
5	a little bit about that earlier I've looked at your	5	Q. Have you read the Commission's interim report?
6	CV and would this be fair: that, first and foremost, you	6	A. I have, yes.
7	are a forensic delay analyst? Would that be fair?	7	Q. Did you do that before or after you prepared your
8	A. No. I would say that's where I spend a portion of my	8	report?
9	time now. I would say first and foremost I'm	8 9	A. I did that before.
	•		
10	a contractor by background. That's where I spent my	10	Q. Mr Wall, I just want to then move on and take some of
11	formative years, if you will.	11	the topics
12	Q. Yes. I just looked at the various matters that you have	12	A. Certainly.
13	given expert evidence on, either orally or in the form	13	Q that you deal with and the other experts have dealt
14	of expert reports, and they all seem to be	14	with.
15	delay-related, delay claims.	15	The first point you make, not perhaps the biggest
16	A. I would say the majority are delay-related. Some relate	16	point, but you take issue, it appears, with Mr Rowsell
17	to quantum and some relate to defects as well.	17	in relation to the government's position. You will
18	Q. All right. Have you ever given evidence or written	18	recall that what you say is that the reference to
19	a report specifically on project management issues?	19	Crossrail in the UK you don't find helpful; do you
20	A. No.	20	remember that?
21	Q. You say in paragraph 9 of your report that you do not	21	A. Yes.
22	have any current connections with any of the parties, in	22	COMMISSIONER HANSFORD: Sorry, the transcript says
23	particular Leighton. However, I did note in your CV,	23	"government's position". I think you said "governance".
24	that you have, it appears, in the past been employed by	24	MR PENNICOTT: No, "government", that is right.
25	Leighton Asia. Is that correct?	25	COMMISSIONER HANSFORD: Okay.
	Page 22		Page 24
1	A. That's correct.	1	MR PENNICOTT: The point you make is that on Crossrail there
2	Q. Can you tell us when you were employed by Leightons?	2	was the Department for Transport and Transport for
3	A. Yes. That was, if memory serves me correctly, I think	3	London involved as essentially the employer?
4	it was 2005, the end of December 2005, I think, to April	4	A. Correct.
5	2008. It was on the Eagle's Nest Tunnelling project	5	Q. And you will be aware, if you've read the interim
6	which is adjacent to the Lai Chi Kok Viaduct which	6	report, that the point that Mr Rowsell had made in the
7	I believe Mr Huyghe was involved in but a number of	7	first part of the Inquiry and this is recorded in the
8	years later.	8	interim report that MTR themselves found themselves
9	Q. Yes. Indeed, a number of us were.	9	having to deal with ten or more different Hong Kong
10	What was your position at Leighton during that	10	government departments, and that was his point: there
10	period?	10	was no one single point of contact. Is that your
12	A. I was the sub-agent responsible for the planning and	11	understanding?
			A. No. My understanding is that Mr Rowsell's point was
13	programming aspects of the project, as well as compiling the project management documents associated with	13 14	
14	the project management documents associated with	14	that there was more than one government department
15	handover and punch-list items for completion of the	15	acting as owners for the project, for the project in
16	works.	16	London, the Crossrail project; whereas, as I understand
17	Q. Is that the only period that you've worked for	17	it, in Hong Kong there is only one government department
18	Leightons?	18	that is acting as the owner. The function of the other
19	A. As an employee, yes.	19	government departments are in their statutory oversight
20	Q. Have you ever acted as an independent expert on behalf	20	role, which to me, I would distinguish between the
21	of Leightons before?	21	two. One is you are reporting to the owner, and one, as
22	A. Not as an independent expert. I've done some work as	22	with any other developer, you have to comply with
23	a sub-consultant for another claims consulting firm,	23	certain statutory and legislative requirements.
	a sub-consultant for another claims consulting firm, assisting with some programming issues on one of the XRL projects that was related to Leighton.		<ul><li>certain statutory and legislative requirements.</li><li>Q. I'm not sure that is the point.</li><li>Can we have a look at paragraph 441 of the interim</li></ul>

	Page 25		Page 27
1	report, please.	1	is perhaps that it's appropriate at the level that it is
2	This is part of the interim report, Mr Wall. It	2	at the moment, and the granularity should be dealt with
3	says:	3	at the project-specific or job-specific documents.
4	"During the course of the hearings, the Commission	4	Q. All right. My understanding of Mr Rowsell's position is
5	could not fail to take note of the very large number of	5	that he's not suggesting that it be made as detailed as
6	government bureaux, departments, offices, committees and	6	you would have a document for day-to-day management.
7	other sundry bodies involved in rail enhancement	7	It's still at a relatively high generic level. But
8	projects. In respect of the SCL project, the various	8	there are, nonetheless, certain aspects of project
9	bureaux and departments with a role to play have	9	management that are not dealt with and ought to be. Do
10	included the following", and then they are all listed.	10	you accept that?
10	"Even this extended list may not be complete."	10	A. Yes, I appreciate that point.
12	If we can go to the next paragraph, please:	11	Q. If we look at the joint statement at paragraph 13,
12	"Steve Rowsell suggested that, in respect of	12	
	a project which the government is funding, it could		please.
14		14	It's at tab 9 if you are looking at the hard copy.
15	ensure greater efficiency, greater cost-effectiveness	15	It's on the screen as well.
16	and savings in time if there was a single point of	16	As I understand it, Mr Wall, paragraph 13 is
17	responsibility within the government for administering	17	something that's agreed by all three experts; is that
18	the government's agreement with the MTR, more especially	18	right?
19	to oversee and manage internal government consultations.	19	A. That's correct, yes.
20	The Commission believes there is much strength in	20	Q. So, missing out the first couple of sentences, it says:
21	Mr Rowsell's recommendation."	21	"Based on the evidence examined by the Extended
22	That really was the point that Mr Rowsell was making	22	Inquiry we consider that it would be desirable for the
23	and does make.	23	standard content of PMPs for similar future projects to
24	A. Okay. That's not the way I have interpreted his report,	24	cover additional aspects of project management at
25	but I understand if the Commission is of that view.	25	a strategic level as follows".
	Page 26		Page 28
1	Q. Okay. Just have a look at paragraph 475, please. Under	1	Then five matters are mentioned; is that right?
2	"Governance":	2	A. Yes, that's correct.
3	"The Commission recommends that the government	3	Q. So there's a general agreement?
4	should critically address the way in which it executes	4	A. Yes, that's correct.
5	its multiple roles in relation to railway enhancement	5	Q. All right. Could I then turn to the topic of
6	projects. Of particular concern is government's role as	6	non-conformance reports, NCRs.
7	'client' or 'sponsor' of railway projects. The sponsor	7	A. Certainly.
8	organisation must provide both authority and	8	Q. My understanding is that you are of the view, and indeed
9	responsibility for the project."	9	so are the other two experts, that there should be
10	You wouldn't disagree with any of that, I assume?	10	different grades of NCR; would that be right?
11	A. No. I'd agree with 475 completely.	11	A. That's correct. This is something that we discussed
12	Q. All right. Could I then turn to the project management	12	together in London.
13	plan.	13	Q. Right. By that, one perhaps has NCRs for minor matters
14	A. Certainly.	14	and NCRs for major matters and perhaps NCRs for
15	Q. Which is a point that you touched on in one of your	15	something in between?
16	slides earlier, and you deal with in I think	16	A. That would be correct, yes.
17	paragraphs 20 to 41 of your report. It may be that we	17	Q. And that I think is reflected in paragraph 29 of the
18	are just talking about a question of degree here,	18	joint statement. Missing again the first sentence:
19	Mr Wall. Mr Rowsell's point is that certain key aspects	19	"This could be achieved by having different grades
20	of project management are not covered in the project	20	of NCR covering minor, medium and major non-conformances
21	management plan, and he thinks they ought to be. Do you	21	requiring different responses as appropriate."
22	understand?	22	That's really the essence of the agreement?
23	A. Yes. I think it is a matter of degree. I think	23	A. Yes, that's correct.
24	Mr Rowsell's view is perhaps there should be a greater	24	Q. All right.
1			

	<b>D</b> 20		D 21
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1	were, to self non-conform itself, and indeed Leighton	1	CHAIRMAN: Sorry, can I interrupt a second Mr Wall, just
2	had perhaps a non-conformance procedure with	2	to ask you for your assistance. I suppose, as a lawyer,
3	sub-contractors; were you aware of that?	3	I have spent my life picking up books that if I dropped
4	A. Not specifically, no.	4	would break my toe, and that have large indices to them;
5	Q. All right. Assuming there is a non-conformance	5	okay? Now, the secret of these books, as a lawyer, for
6	procedure, whether it's in exactly the same manner as	6	myself, is an ability to find the relevant passage or
7	the MTR NCR, don't worry about that, but presumably you	7	the relevant instructions or procedures without too much
8	would agree, would you, that that's something that could	8	difficulty; okay? And I can't help but wonder, to some
9	be followed through to the sub-contracting position?	9	degree, if we've got the PMP, which is the strategic
10	A. I would agree with that, yes.	10	document, we then have the PIMS which is more detailed,
11	Q. Okay. Can I ask you, please Before we turn to some	11	we have other contractual documents which are more
12	aspects of interfaces which I will come to in a moment,	12	detailed, and I do recall it being touched upon during
13	can I take you to paragraph 40 of your report, please.	13	the course of some of the earlier evidence that people
14	A. Yes.	14	may not be fully aware of what there is actually there,
15	Q. There you are commenting on paragraph 15(a) of	15	and they go ahead not acknowledging that. I'm sure
16	Mr Rowsell's report and you say:	16	Mr Rowsell will speak to this, but what's the best way
17	" I acknowledge Mr Rowsell's comments regarding	17	of making sure that the people at the workface, the
18	the importance of interfaces; however I disagree that	18	engineers and the other technical men and women, have
19	these have not been covered. Section 5.2.3 of the	19	for themselves something which is accessible but has all
20	project management plan clearly states that	20	the necessary detail?
21	responsibility for managing interfaces rests with the	21	A. I think, Mr Chairman, for me that would be the ITP.
22	competent persons for the works with appendix 6	22	I think it's in terms of the guys and girls at the
23	providing further details in terms of delineation of	23	frontline, I think it's the responsibility of those of
24	responsibility."	24	us that perhaps are in the office or at a slightly more
25	Do you see that?	25	senior management level being able to distil out the
	Page 30		Page 32
1	A. Yes.	1	information that is contained in the appendices and the
2	Q. My understanding you are absolutely right about the	2	footnotes of our large books or plethora of documents
3	"competent persons" point, but my understanding is that	3	down to a single page or a couple of pages that we can
4	Mr Rowsell's point is that there are no in the	4	pass to the frontline troops to enable them to make sure
5	project management plan, what it lacks is information on		they comply with their respective obligations.
6	the systems and the procedures to be used by the	6	To me, it's essential that it is distilled down to
7	competent person. Would you agree with that so far as	7	that single one or two pages or, as you quite rightly
8	interface is concerned?	8	pointed out, Mr Chairman, they will just be drowning in
9	A. I would agree that that's Mr Rowsell's opinion, but that	9	information; they won't know where to look or indeed
10	comes back to my earlier point that I see the PMP as a	10	perhaps what they are looking for as well.
11	strategic document and not necessarily the most	11	CHAIRMAN: Okay. So that's why you would grade, if I can
12	appropriate place to be placing procedures and systems.	12	put it that way, strategic overview documents, down into
13	But my reference here as well, I would note that the	13	more detailed documents and the like?
14	PIMS documents are actually appended to the project	14	A. That's correct, yes, Mr Chairman.
15	management plan, I believe.	15	CHAIRMAN: All right. Thank you.
16	Q. Yes.	16	MR PENNICOTT: Sorry, Mr Wall, I just want to go back to
17	A. So, to me, there are some processes in the appendix but		a couple of answers you gave me a short while ago on
18	not in the main body of the plan itself.	18	paragraph 40 of your report, when we were talking about
19	Q. All right. So your view on this interface management	19	the importance of interfaces, whether it should be in
20	point is that there is sufficient detail in the PIMS?	20	the project management plan or in PIMS.
21	A. Correct, yes.	21	Can I just ask you, as a consequence of the answers
22	Q. And that there doesn't need to be anything in the	22	you gave, to look back to paragraph 13 of the joint
23	project management plan as a consequence?	23	statement, where the experts have agreed, at (d), that
24	A. I think nothing further than is already highlighted.	24	so far as the project management plan is concerned,
25	Q. Understood.	25	covering of interface risk planning and management

	D		D 25
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1	should be included in the PMP. Is that consistent with	1	Q. One can understand the point that let's presuppose,
2	the answer you gave me, Mr Wall?	2	for the sake of the argument, that Leighton ought to
3	A. I think it is and it comes back to the point again,	3	have produced a specific stitch joint method statement.
4	whether you are talking about information at a strategic	4	There is the second question as to whether MTR should
5	level or at a detailed level. I see no conflict between	5	have asked for one
6	having an item or a page or a paragraph in the project	6	A. Correct.
7	management plan highlighting the issue of the importance	7	Q and insisted upon it; I understand that point.
8	of risk planning and management, and perhaps where	8	But we have seen and heard some factual evidence
9	documents related to that might be located in PIMS, with	9	from both Leighton's witness and MTR's witness that
10	then the further details of how actually that process is	10	a specific stitch joint method statement would have been
11	to be dealt with, which parties to be involved, when	11	helpful and beneficial. Do you agree with that?
12	meetings are to be carried out, et cetera, dealt with in	12	A. Yes, I would agree.
13	more detail elsewhere. I would see that as quite	13	Q. Sir, if it's helpful, the two witnesses were Mr Holden,
14	consistent with, as Mr Chairman has pointed out, that	14	William Holden, the engineering manager of Leighton, at
15	having a tiered process of documentation, a Russian	15	Day 8, page 84; and Mr Michael Fu, MTR's construction
16	doll, if you will, with further detail being added as	16	manager, Day 10, pages 96 to 97. They were both ad idem
17	you dig further.	17	on that.
18	Q. All right. That's helpful.	18	Mr Wall, there are various references, a reference
19	Could I then turn to the question of the stitch	19	to a method statement in appendix Z2, which I expect you
20	joints.	20	have looked at
21	A. Certainly.	21	A. Yes, correct.
22	Q. The difference, I think, between Mr Rowsell and	22	Q. I'm not going to take you to that. All right.
23	Mr Huyghe on the one hand and yourself on the other, or	23	A. I believe that's referred to in my own report.
24	one of the differences, is that they both think a method	24	Q. It is indeed.
25	statement should have been specifically prepared for the	25	RISC forms. Can I just try and understand, Mr Wall,
	Page 34		Page 36
1	stitch joints. Do you agree, first of all, that's	1	a particular paragraph or a sentence in a paragraph in
2	the difference between you?	2	your report. It's paragraph 50, and it's really
3	A. Can I see the paragraph for that one, where that relates	3	a factual point which I'm bound to say I am rather
4	to in the joint statement, just to refresh my memory?	4	puzzled by. Could I ask you to look at the last
5	Q. Indeed. Let me just find it.	5	sentence of paragraph 50. You say:
			"Indeed, MTRCL did not raise the lack of RISC forms
6	It's 26(c), I think, Mr Wall. To pick it up, you need to go to paragraph 47 at the end. That lists the	6	
7		7	with Leighton's management (other than by sending
8	four specific paragraphs you don't agree with.	8	a single email in 2015)"
9	A. Okay. $O_{1} = 2f(x)$ is the last one of them and if we are healt to	9	And then you've got footnote 6; do you see that?
10	Q. $26(c)$ is the last one of them, and if you go back to	10	A. Yes.
11	26(c).	11	Q. I've looked at the document you've referred to at
12	A. Okay. So I think the disagreement here was I was of	12	footnote 6: CC10/6208. It's actually an email dated
13	the view that a method statement was required for these	13	24 March 2017. We can put that up on the screen, if you
14	works and it was prepared. Now, should that method	14	wish. CC10/6208.
15	statement have had more detail in it, I think yes, that	15	A. Sorry, can we scroll to the bottom of this email,
16	probably would have been helpful with regard to the	16	please.
17	couplers, but I don't think there necessarily needed to	17	Q. Yes.
18	be a separate document, and I think the other point that	18	A. Apologies, Mr Pennicott, the reference is incorrect.
19	I had wanted to make but my fellow experts did not want		But I have seen an email in 2015 that relates to the
20	to include in the joint statement was that, to me, while	20	absence of RISC forms.
21	the preparation of the method statement is Leighton's	21	Q. Right. Okay, well, there it is. But you go on to say:
22	responsibility, there is also an element of	22	" until after the defects in the stitch joints
23	responsibility that MTRCL has in terms of its approval.	23	were identified"
24	Q. Yes.	24	So MTR did not raise the lack of RISC forms with
25	A. So I don't	25	Leighton management until after the defects in the

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1	stitch joints. Well, these defects in the stitch joints	1	A. Sorry, can I see the transmission or email information
2	were first discovered in August 2017, so again I don't	2	that shows these were communicated to Mr Harman, please?
3	really understand the point you are seeking to make	3	Q. Well, he prepared them.
4	because	4	A. Sorry, I thought these were Kit Chan's registers.
5	A. Sorry.	5	Q. No, they were called "the Kit Chan register"; all right?
6	Q even that document we've just looked at, the email of		I'll show you another email. I'm not sure where the
7	24 March 2017, is before the defects in the stitch	7	email is that covers this, but let me show you this one:
8	joints were identified. So I'm puzzled	8	BB16/9797.
9	A. Sorry, if we could read the whole sentence I said:	9	This is an email from Leighton to Mr Fu, and we can
10	" MTRCL did not raise the lack of RISC forms with		see it's 10 June 2016; do you see that?
11	Leighton's management (other than by sending a single	11	A. Yes.
12	email in 2015)"	12	Q. So we have moved on a year from where I was in those
12	Apologies for the incorrect reference. Then:	12	registers. This is an email sent to Mr Fu but copied
13 14	" until after the defects in the stitch joints	13 14	can we look at some of the names, please to some
14	were identified [which I believe you mention is August	14	familiar names: Mr Rawsthorne, who we have heard from;
15 16	2015]."	15 16	from Justin Taylor, Mr Kevin Harman, Mr Plummer,
17	-	17	Mr Manning, all people in Leighton management; do you
17	<ul><li>Q. Yes.</li><li>A. Then "(at which points they issued NCRs)", so it's</li></ul>	17	see that?
18		18 19	A. Certainly, yes.
	the NCR's that I am referring to which I believe were first issued in April 2018, a large batch then followed	20	Q. All right. What is being attached and sent, amongst
20	1 0	20 21	other things, is number 11, "Kit Chan register and
21 22	by, if I remember correctly, July 2018. So it's the	21	report"; do you see that?
22	NCRs that I'm referring to as occurring afterwards, the NCRs being raised afterwards.	22	A. I do, yes.
23 24	-	23 24	Q. So, as we see it, Mr Wall, there is plenty of evidence,
	Q. All right. Let me try this: have you heard and read about some documents known as the Kit Chan registers?		a number of items of evidence, which suggest that
25	-	23	
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1	A. That doesn't ring a bell, I'm afraid, the Kit Chan	1	a number of people, Mr Harman being the central person,
2	registers.	2	at Leightons who were well aware of this RISC form
3	Q. What happened, if you read some of the evidence, is that	3	problem. I just wanted to try and set the record
4	when this problem of lack of RISC forms was identified,	4	straight, if that is right, given the contents of your
5	Mr Kit Chan, who was then the construction manager of	5	paragraph 50.
6	MTR, Michael Fu's predecessor, contacted Kevin Harman,		A. Sorry, could I clarify? I don't believe that I've said
7	Leighton's quality and environmental manager, and	7	anywhere that Leighton were not aware that there was
8	a list, a register was drawn up of the missing RISC	8	a RISC form. The point that I was trying to make was
9	forms. Were you aware of that?	9	that it was the enforcement aspect from MTRCL, that's
10	A. No, not off the top of my head, no.	10	the issue. So I was trying to focus on the NCR aspect
11	Q. BB8/5692, please, that's the Extended Inquiry.	11	and the kind of enforcement/policing side of things. As
12	A. Sorry, looking at the dates in this, perhaps this is	12	you've correctly pointed out, I think there's a general
13	related or attached to the email that I was referring	13	awareness that there was a problem with the RISC forms,
14	Q. These reports, the Kit Chan registers, started their	14	and that's not something that I have addressed. What
15	life in 2015.	15	I was seeking to look at was, as I say, the enforcement
16	A. Okay.	16	of the procedures.
17	Q. So Mr Harman was well aware, and he's the quality and	17	Q. Yes. Mr Wall, it's not my job as counsel to the
18	environmental manager of Leighton, back in 2015 of the	18	Commission to cross-examine you in a manner that I might
19	problem. Were you aware of that?	19	do if I were in court or elsewhere, but you do say,
20	A. Which is consistent with the 2015 date in my report,	20	"MTRCL did not raise the lack of RISC forms with
21	I believe.	21	Leighton's management until after the defects in the
22	Q. Yes, but it's not just a question of sending a single	22	stitch joints". What I'm just saying to you is that is
23	email. These registers were prepared on a regular,	23	not right. Do you agree?
24	updated basis for Mr Chan, Kit Chan of MTR, and	24	A. The communications and emails that you have shown me so
25	identified the missing RISC forms, so	25	far are from Leighton to MTRC, not in the other

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1	direction. So, yes, I think my statement is correct,	1	A. Well, are we talking I think as I've said here in
2	that while these matters may have been discussed, they	2	paragraph 54, I distinguish between the RISC inspection
3	have not been raised at a high level by MTRC, which is	3	procedure and then the documentation thereof. So, as
4	the point that I was making. But I accept your	4	far as I'm aware, the inspection procedure has generally
5	position.	5	been followed, but, as you rightly point out, it's the
6	Q. Do you think MTR or Leighton's management Leighton's		documentation is lacking at the NAT, SAT and HHS areas.
7	management should have raised this with MTR at a high	7	Q. Yes.
8	level and, if so, at what level?	8	A. But, as I say, I think it's important to distinguish
9	A. Yes, I think it should have been raised by both parties	9	between actual inspection, following that process, and
10	at a high level.	10	the documentation of that inspection.
11	Q. What do you say that MTR should have done about this	11	Q. All right. You say further down in paragraph 54:
12	RISC problem, from a project management point of view?	12	"The [principal] non-conformity is the failure to
13	A. They could have although the PIMS procedure suggests	13	submit some of the RISC forms in the NAT, SAT and HHS
14	that it's not necessary, they could have raised an NCR,	14	areas."
15	they could have refused to turn up to inspections unless	15	Not just some of the RISC forms, Mr Wall, but a very
16	RISC forms were submitted in a timely manner. They	16	significant number?
17	could have enforced the procedure. But I think, as	17	A. Correct, yes.
18	Kit Chan said in his witness statement, it's not	18	Q. A point on RISC forms that I think we are in agreement
19	something that MTRCL took that seriously.	19	with, Mr Wall, appears at paragraph 64 of your report.
20	Q. I'm not sure he went that far but I'll let Mr Boulding	20	You say:
21	pick that up, if he wants to.	21	"While I agree that the inspection procedure has
22	Just a separate, distinct point but still on RISC	22	some good components, I am of the opinion that it could
23	forms. In paragraph 14 of your report, the executive	23	be improved further so as to ensure that all parties
24	summary part of your report, you say there, Mr Wall:	24	were aware of the number of RISC forms that would be
25	"I disagree with Mr Rowsell's view that the RISC	25	expected prior to the commencement of particular
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1	procedures had not been followed and that certain	1	activities. This could readily be dealt with by the
2	inspections were ineffective. However, while the	2	relevant method statements. I understand that Leighton
3	inspections themselves were executed, I would accept	3	has now implemented such an arrangement within its own
4	that there were issues with the associated documentation	4	enhanced quality assurance procedures."
5	(namely that a small number of RISC forms were not	5	This is a point I think I discussed with Mr Huyghe,
6	completed despite the inspections taking place)."	6	that you think and indeed believe that it would be
7	I assume, but perhaps you can confirm, Mr Wall, that	7	possible to think ahead, to plan ahead, to estimate the
8	you are not asserting that a small number of RISC forms	8	number of RISC forms that ought to be submitted for any
9	were not completed in the NAT, SAT and HHS areas?	9	particular series of activities, and then, if you are
10	A. That's correct.	10	able to do that, you can then monitor if there's
11	Q. Because presumably you are aware that, in those areas,	11	a problem?
12	there was a failure to submit and supply RISC forms to	12	A. Absolutely, and I'm not talking about a two-week or
13	a large extent?	13	a three-week look-ahead programme. I can see no
14	A. Yes.	14	fundamental reason why, particularly on significant
15	Q. So, as I understand it, your observation must relate to,	15	infrastructure projects like this, why, as part of your
16	what, the combining of the RISC forms for the areas I've	16	method statement, you cannot have a plan for all of the
17		17	pours that you are going to conduct and, as
10	just mentioned plus everywhere else; is that correct?		
18	Just mentioned plus everywhere else; is that correct? A. That's correct, yes.	18	a consequence, the RISC forms that you would expect at
18 19		18 19	a consequence, the RISC forms that you would expect at any particular area at any particular time. I think
	A. That's correct, yes.		· · ·
19	<ul><li>A. That's correct, yes.</li><li>Q. Okay.</li></ul>	19	any particular area at any particular time. I think
19 20	<ul><li>A. That's correct, yes.</li><li>Q. Okay.</li><li>At paragraph 54 of your report, you say:</li></ul>	19 20	any particular area at any particular time. I think there's no reason why that kind of framework can't be
19 20 21	<ul><li>A. That's correct, yes.</li><li>Q. Okay.</li><li>At paragraph 54 of your report, you say: "I disagree with Mr Rowsell's comment regarding the</li></ul>	19 20 21	any particular area at any particular time. I think there's no reason why that kind of framework can't be put in place. Perhaps the dates would move around
19 20 21 22	<ul> <li>A. That's correct, yes.</li> <li>Q. Okay.</li> <li>At paragraph 54 of your report, you say: "I disagree with Mr Rowsell's comment regarding the application of the RISC procedures. In my view,</li> </ul>	19 20 21 22	any particular area at any particular time. I think there's no reason why that kind of framework can't be put in place. Perhaps the dates would move around a little bit, as they do on construction projects, but

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1	months ahead, if not for a substantial proportion of the	1	Monday or Wednesday?"
2	project, so you have a clear idea what your expectations	2	CHAIRMAN: I see the point you are making.
3	are. And I think perhaps as Mr Rowsell has pointed out,	3	A. I see no reason why the rest of the paperwork cannot be
4	to digress, that would aid with your resource planning	4	put in place. Now, maybe that needs to be revised
5	as well, for both parties.	5	sometimes. Perhaps you decide that you are going to
6	Q. Yes.	6	shrink one pour or you are going to enlarge one. But
7	CHAIRMAN: Sorry, but would it act to ensure timely	7	I think, to my mind, at the outset, there is no reason
8	submission of RISC forms? It presumably wouldn't affect	8	why you can't have certainly a revision 0 framework in
9	that at all?	9	place that maybe you revise or maybe you're happy and
10	A. I don't see that it would it certainly wouldn't have	10	you continue on that basis.
11	a negative impact on timely submission of RISC forms.	11	CHAIRMAN: I am with you. So that's forward planning,
12	I don't see that it would necessarily improve matters,	12	really?
13	but it would certainly be clear that what RISC forms	13	A. Correct.
14	you are expecting for which piece of work.	14	CHAIRMAN: As opposed to reactive action, if there's such
15	If we were constructing a chess board, as	15	a phrase, which takes place when you suddenly realise,
16	an example, and we knew that we needed three RISC forms	16	"I've had a phone call, 'Can you inspect bay 22 this
17	for every square on the board, then it's readily easy	17	afternoon?", and you say, "I haven't got time to do the
18	for us to be able to identify where we have something	18	form, I'll do it in a couple of weeks"?
19	missing or there has been a non-compliance; whereas	19	A. Correct. So I think Mr Pennicott was asking, if I
20	I think, if you don't have that plan in place, then	20	understand correctly, is that the process I would
21	perhaps you don't know what you don't know.	21	advocate and I would say definitely, there should be
22	CHAIRMAN: Yes. As a layperson, one of my concerns is that		a forward plan in place, and I can see no reasonable
23	the RISC form contains details of the inspections	23	obstacle to not having one there. As I say,
24	that's my understanding so that if it's an inspection	24	I understand from the Leighton staff that they have
25	of rebars being put in at a particular hold point and	25	acknowledged that and that's now being addressed as part
	Page 46		Page 48
1	Page 46 checking everything is okay there before a concrete	1	Page 48 of their own QA procedures.
1 2		1 2	-
	checking everything is okay there before a concrete		of their own QA procedures.
2	checking everything is okay there before a concrete pour, you go along and you check everything, and then	2	of their own QA procedures. CHAIRMAN: But at the end of the day well, obviously what
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	Page 49		Page 51
1	software is telling them there's a problem in this	1	and you say that you've not seen any evidence that MTR
2	corner, this reinforcement has not been spaced out	2	didn't continually request the RISC forms be provided?
3	correctly. So then you are not so much reliant on at	3	A. Correct, yes.
4	5.30, somebody wants to go home, it's then flagged up,	4	Q. All right.
5	kind of eliminates or reduces the risk of the human	5	" but did continue to carry out inspections in
6	error aspect. That perhaps is a few years down the	6	the absence of all RISC forms."
7	road. I think it would be good if we could just get to	7	Presumably you agree with that?
8	the iPad stage at the moment and away from the	8	A. Correct, yes.
9	paperwork.	9	Q. Then:
10	CHAIRMAN: Yes. Thank you very much.	10	"A series of NCRs were later issued by MTR on
11	COMMISSIONER HANSFORD: When you refer to Microsoft's	11	16 April 2018" I think we can cross out the 4 "and
12	HoloLens, which I have to say I'm not personally	12	6 July 2018"
13	familiar with, the shorthand for this is BIM, really,	13	Again, cross out the 5; I imagine there would have
14	isn't it? Not quite?	14	been some notes there previously.
15	A. I think you would use the BIM model as part of that	15	A. Correct.
16	would be the kind of underlying software or digital	16	Q. So it really is just the words "and MTRC continually
17	model that you would be using to interface with, yes.	17	requested that the RISC forms be provided", that's the
18	COMMISSIONER HANSFORD: Thank you.	18	bit you disagree with?
19	MR PENNICOTT: Sir, I see it's 11.30, if that would be	19	A. Correct, and when we were editing this document there,
20	a convenient moment to have 15 minutes, perhaps.	20	I had been asked to insert a passage that wasn't
21	CHAIRMAN: Yes, certainly. How are we doing?	21	I think basically the wording that I'd suggested was
22	MR PENNICOTT: We are doing all right. 15 minutes	22	that Leighton and MTRCL did not follow the RISC form
23	CHAIRMAN: 20 minutes.	23	or follow the RISC form procedure in terms of
24	(11.30 am)	24	documentation, but my fellow experts wanted to focus on
25	(A short adjournment)	25	Leighton's lack of submission, and my view was that that
	D 50		
	Page 50		Page 52
1	Page 50 (11.53 am)	1	Page 52 was only
1 2	-	1 2	-
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	Page 53		Page 55
1	question earlier, what should MTRC have done, your	1	'significant defects'. I am concerned that this
2	answer was I think threefold, so far as I can recall it	2	suggests that the defects in question were pervasive,
3	and having a quick check of the transcript. Issue	3	which they were not. In practice, defects in the
4	an NCR was one option?	4	reinforcement were confined to isolated locations at the
5	A. Correct.	5	stitch joints in the NAT and minor works in the HHS
6	Q. Refuse to turn up to the inspections was another option?	6	(ie the VRV room). In my opinion, they are not
7	A. That's correct.	7	a cause for concern and are consistent with the level of
8	Q. So don't play ball. And thirdly, enforce the procedure?	8	defects that one would expect to emerge during the
9	A. Correct.	9	course of a large construction project."
10	CHAIRMAN: Is this not, though as I read it, what seems	10	First of all, Mr Wall, would you agree that if one
11	to be suggested is that yes, there is a procedure and we	11	just focuses on the stitch joints themselves, the
12	do have means for enforcing it, but everybody wants to	12	defects clearly were pervasive?
13	get this job done; we can appreciate the need for people	13	A. If you confine your view to the stitch joints, yes.
14	to place their primary focus there, but we think,	14	Q. Because we know that all three stitch joints had to be
15	therefore, rather than the heavy hand, perhaps the	15	demolished and reconstructed at considerable cost?
16	softer handshake with a meeting and just seeing if we	16	A. Correct.
17	can come up with something alternative may be better?	17	Q. You do not say, as I understand it, that the defects in
18	A. Mr Chairman, I would agree, but I think there needs to	18	the stitch joints, looked at in isolation, are
19	be the possibility of the heavy hand in the background.	19	consistent with the level of defects to be expected?
20	So perhaps you would say to people, "There's a problem.	20	A. If you look at them in isolation, I would agree.
21	I will give you 28 days to fix it. If you don't fix it,	21	Q. That's what I thought. So your observation, as
22	then I will enforce the procedure", not immediately go	22	I understand it, is looking at the question of defects
23	into a group hug and decide how we can solve things	23	on a much wider or broader basis; is that correct?
24	together in an overly friendly way. I think that	24	A. That's on the project as a whole, correct.
25	results in the situation which we now find ourselves in.	25	Q. All right.
	Page 54		Page 56
1	CHAIRMAN: I'm not talking about friendliness necessarily.		-
			I was going to ask you about paragraph 72, which is
		1 2	I was going to ask you about paragraph 72, which is the resource planning point, but I think we touched on
2	I'm talking about perhaps saying, well, we can either go	1 2 3	the resource planning point, but I think we touched on
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	Page 57		Page 59
1	that would be required, from a process perspective, in	1	unreasonable, but you do get unreasonable terms of
2	terms of ensuring that that level of manpower was	2	contracts, and the words "full-time and continuous"
3	required to provide that level of supervision.	3	would appear on their face to be pretty clear: "I want
4	Q. If that's what I know you don't accept it, but if	4	somebody full-time doing this and doing it
5	that's what the contract required, then it would have to	5	continuously", other than, as you say, toilet breaks and
6	be provided?	6	things like that.
7	A. If that was what the contract required, then yes.	7	A. Then, Mr Chairman, is that then continuous? If you have
8	Q. It's not impractical in that sense. If that's what the	8	a full-time job, do you never go on leave, you never
9	contract required, it would have to be provided?	9	stop for lunch? I think if we're talking
10	A. Correct.	10	CHAIRMAN: No. What they're saying is, "We would like to
11	Q. So it is practical, it would be practical, in those	11	have" on the face of it, and I bow to you've been
12	circumstances?	12	a contractor, you know what actually works, but
13	A. If that's what the contract requires, but as I said	13	I suppose I come at it from this perspective: number
14	that's not a contract requirement.	14	one, there's nothing to prevent an employer imposing
15	Q. You also say it's uneconomical. For whom is it	15	conditions that are not usual.
16	uneconomical?	16	A. I would agree.
17	A. Principally for the contractor. If this level of	17	CHAIRMAN: And number two, you can impose conditions which
18	supervision was expected, I think it would inevitably	18	act harshly, unless you are prepared to put more people
19	have an impact on the prices that the government was	19	on the job; and number three, if you are putting more
20	obtaining for its construction works.	20	people on the job, you can charge more for the work you
21	Q. Quite. So, again, if it means what Mr Rowsell says it	21	are doing.
22	means, and what has been made as an interim finding in	22	A. I would agree, Mr Chairman.
23	the interim report, it's not uneconomical because the	23	CHAIRMAN: So it's doable, but it's only doable on the basis
24	contractor would allow for it in his tender?	24	that you are going to have to put more people on the
25	A. I think, from my perspective, in the context of the	25	job, more than most people would think is necessary, and
	Page 58		Page 60
1	Page 58 construction industry in Hong Kong, it is uneconomical	1	Page 60 it's going to cost?
1 2		1 2	it's going to cost?
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2	construction industry in Hong Kong, it is uneconomical and impractical. I mean, we can always say that, yes,	2	it's going to cost? A. Correct, which is why I've said it's, to me, impractical
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1	MR PENNICOTT: I'm reasonably confident it's contained in	1	shall we say, and I think to myself: you've got, say,
2	Buildings Department's Code of Practice.	2	300 rebars, not in one long line like chocolate soldiers
3	CHAIRMAN: It may be. I'm sure it will be.	3	but above each other, below each other. You've got
4	MR PENNICOTT: Do you happen to know that, Mr Wall?	4	lighting that's not open-air, blue-sky lighting; you are
5	A. I don't, I'm afraid, off the top of my head.	5	down in a tunnel, you've got dust. How on earth is
6	Q. Okay, fair enough. But just on this point	6	somebody going to come along at a hold-point inspection
7	CHAIRMAN: Sorry, while we are on it please forgive me,	7	and be able to confirm that several hundred of these
8	I'm not trying to hog everything.	8	things are all in and don't show more than two threads?
9	MR PENNICOTT: Not at all.	9	A. I appreciate your concern, Mr Chairman
10	CHAIRMAN: It just helps me with understanding. When I look	10	CHAIRMAN: It's a really difficult job.
11	at the photographs of the site, at the time when work	11	A but I think you are going to have more success
12	was being done, it's apparent to me, with this laying of	12	inspecting it at a hold point, up close, than you are
13	the rebars, that we are not talking about one man	13	perhaps you are keeping an eye on the two guys who are
14	putting in three or four rebars, we are talking about	14	working there and there are another three or four guys
15	several couples or triples of men making up little teams	15	down there who screwed in a number of bars by the time
16	doing it, connecting the rebars, putting them in, a very	16	you got to them; you've not seen what they've done.
17	large number in a line, not only in a line but above	17	So in terms of looking at the quality aspect, to me
18	each other or below each other. And, when I take that	18	that needs to be done as part of the ITP and possibly,
19	into account, and then when I look at the reports that	19	again there needs to be perhaps more stages in the ITP,
20	have been submitted by MTR and government, the holistic	20	so that you can actually see the mat properly.
21	reports they are sometimes called, and the other report	21	CHAIRMAN: The other thing is and please don't get me
22	that accompanies it, and those reports indicate	22	wrong here I do appreciate fully, and it was
23	statistically, it would seem, that there were a lot of	23	mentioned in our interim report I think, that almost all
24	failures in the embedding of the rebars, I can perhaps,	24	workers get up in the morning wanting to do a decent
25	as a layperson, understand why you might need to have	25	day's work
	Page 62		Page 64
1	Page 62 people on site all the time, checking that the work is	1	Page 64 A. I believe so.
1 2	people on site all the time, checking that the work is being done. What would be your comment there?	1 2	-
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16 (Pages 61 to 64)

	Page 65		Page 67
1	If we could just have a quick look at that, probably	1	morning.
2	no questions but just to remind yourself.	2	Then I think lastly from me, you've got a couple of
3	COMMISSIONER HANSFORD: Which is part of the contract		paragraphs in your report, Mr Wall, dealing with testing
4	documentation?	4	of reinforcement.
5	MR PENNICOTT: Yes, sir.	5	A. Yes.
6	2718. There we are:	6	Q. At paragraphs 80 and 81, you make some observations
7	"A scale factor of less The minimum frequency	7	there, but am I right in thinking that, in effect, that
8	level of site inspections as set out in table 1 of the	8	has now been updated by paragraph 42 of the joint
9	technical memorandum should not be reduced. For full	9	statement? If we could look at that.
10	time TCPs, full-time attendance is still required in	10	A. Yes, principally, yes.
11	providing continuous supervision."	11	Q. Because, as I understand it, all three experts are now
12	That's where it all comes from.	12	saying "MTRC, in relation to its role in overseeing the
13	CHAIRMAN: Yes.	13	implementation of steel testing by the contractor,
14	MR PENNICOTT: Just lastly on this topic, Mr Wall, can I ask		consider the following:
15	you to look at paragraph 78(g) of your report, where you	15	(a) Use audit arrangements to provide assurance that
16	are commenting on various observations made by	16	MTR is confident that all material delivered to site is
17	Mr Rowsell regarding potential contributory factors in	17	tested by the contractor before being incorporated into
18	the non-identification of the defects during	18	the works.
19	inspections.	19	(b) Review the specification requirements for
20	A. Yes.	20	identifying steel awaiting test results", and so
21	Q. You quote from Mr Rowsell's report:	21	forth?
22	"failure to ensure full-time supervision of the	22	A. Correct, yes.
23	coupler works by the contractor and for MTR to provide	23	MR PENNICOTT: Thank you, Mr Wall. I have no further
24	20 per cent attendance", and you refer to the paragraph	24	questions but I anticipate one or two others might.
25	in Mr Rowsell's second report;	25	WITNESS: Thank you, Mr Pennicott.
	Page 66		Page 68
1	"I disagree that there has been a failure to provide	1	Cross-examination by MR BOULDING
2	full-time supervision of the coupler works by either the	2	MR BOULDING: I assume I'm next, Mr Chairman.
3	contractor or MTR", and you refer to witness statements,	3	CHAIRMAN: Yes, Mr Boulding, unless there is any reason why
4	and then you say:	4	you would wish to go at another time.
5	"In my view, the standards required for 'full-time'	5	MR BOULDING: No, this is convenient.
6	supervision must be lower and has therefore been	6	Good morning, Mr Wall.
7	satisfied. Short of providing man-marking of the rebar	7	A. Good morning.
8	fixing workers, (which the experts have agreed would not	8	Q. I act for the MTR and I have one or two questions for
9		•	-
	be practical), I am of the opinion that it would not	9	you. You told Mr Pennicott, my learned friend
10	be practical), I am of the opinion that it would not have been possible to enhance the supervision of the	9 10	you. You told Mr Pennicott, my learned friend Mr Pennicott, that previously you'd worked for Leighton
10 11	have been possible to enhance the supervision of the		you. You told Mr Pennicott, my learned friend Mr Pennicott, that previously you'd worked for Leighton Asia?
10 11 12		10	Mr Pennicott, that previously you'd worked for Leighton
11	have been possible to enhance the supervision of the coupler works any further."	10 11	Mr Pennicott, that previously you'd worked for Leighton Asia?
11 12	have been possible to enhance the supervision of the coupler works any further." Now, nobody, and you are right, is suggesting	10 11 12	Mr Pennicott, that previously you'd worked for Leighton Asia? A. That's correct.
11 12 13	have been possible to enhance the supervision of the coupler works any further." Now, nobody, and you are right, is suggesting man-marking. That would be one-to-one. But what is	10 11 12 13	<ul><li>Mr Pennicott, that previously you'd worked for Leighton Asia?</li><li>A. That's correct.</li><li>Q. And I think you said that it was between December 2005</li></ul>
11 12 13 14	have been possible to enhance the supervision of the coupler works any further." Now, nobody, and you are right, is suggesting man-marking. That would be one-to-one. But what is suggested is that it's one-to-ten. And I still don't	10 11 12 13 14	<ul><li>Mr Pennicott, that previously you'd worked for Leighton Asia?</li><li>A. That's correct.</li><li>Q. And I think you said that it was between December 2005 and April 2008?</li></ul>
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1	Page 69		Page 71
1	Q. Something like six or seven years ago?	1	ascertain whether the inspections at the hold points
2	A. Yes, correct.	2	were in fact carried out?
3	Q. So presumably you know a little bit about the way	3	A. I don't recall but I would agree with that statement.
4	Leighton Asia work and approach projects like this?	4	Q. You'd agree with that?
5	A. Correct, yes.	5	A. Yes.
6	Q. And presumably, based upon your experience, you'd regard	6	Q. And, moreover, he also said it would be difficult, if
7	Leightons as being, what, an apparently competent	7	not impossible, to establish how they were carried out.
8	contractor?	8	Is that something you would go along with?
9	A. I believe so, yes.	9	A. I would agree with that as well.
10	Q. And indeed a responsible contractor?	10	Q. I assume you'd agree with me, would you not, that the
11	A. Yes, correct.	11	RISC form procedure is a contractual procedure which
12	Q. And a contractor who could be taken at its word?	12	Leighton was obliged to comply with?
13	A. Yes, correct.	13	A. I would agree.
14	Q. Now, we've looked at the joint statement with	14	Q. Just for the record, in accordance with the requirements
15	Mr Pennicott, but I wonder if we can go back to that and	15	set out in contract 1112, the PIMS and indeed Leighton's
16	go to paragraph 15. Paragraph 15, as I understand it,	16	own QAP, quality assurance plan?
17	is a paragraph that you and both of your fellow experts	17	A. I would agree.
18	agree to?	18	Q. Let me ask you this: it would be right, would it not,
19	A. That's correct, yes.	19	that Leightons have previous experience in other
20	Q. We can see that you say:	20	projects of the need to comply with inspection and
21	"We agree that the requirements for inspection	21	record-keeping requirements such as the RISC form
22	planning, notification and execution, including the	22	procedure?
23	application of RISC form procedures, are set out in	23	A. I would agree.
24	a range of documents including the 1112 contract, the	24	Q. And presumably you, Mr Wall, as a project manager, would
25	general specification, the particular specification,	25	have expected Leighton, as an apparently competent and
-0	general speetheadon, die paraeana speetheadon,		nave enpeetee Beighton, as an apparently competent and
	Page 70		Page 72
	Page 70 various PIMS procedural documents and the PMP "	1	Page 72 responsible contractor, as you've told me, to have
1	various PIMS procedural documents and the PMP."	1 2	responsible contractor, as you've told me, to have
1 2	various PIMS procedural documents and the PMP." A. That's correct.	2	responsible contractor, as you've told me, to have familiarised itself with the RISC form procedures before
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	Page 73		Page 75
1	A. Yes.	1	in relation to the outstanding RISC forms in the NAT and
2	Q. I wonder if we can just have a look at a contract	2	SAT areas)."
3	condition together. Could we go to C3/C1830. Do you	3	Do you remember discussing that with my learned
4	see clause 2.9 there, Mr Wall?	4	friend Mr Pennicott?
5	A. Yes.	5	A. I do, yes.
6	Q. "Approval, consent not to relieve Contractor of	6	Q. If we could just remind ourselves of the joint statement
7	Liability". Have you had the opportunity to read this	7	again. If you'd be kind enough to go to internal
8	clause, Mr Wall?	8	page 5, which is the page where paragraph 16 can be
9	A. Not I can't recall it.	9	found.
10	Q. Let me help you:	10	If we look at that, do you recall discussing with
11	"No act or omission (including, without limitation,	11	Mr Pennicott those bits that you disagreed with so far
12	any giving or withholding of Approval, consent,	12	as Mr Rowsell and Mr Huyghe were concerned?
13	disapproval, confirmation, agreement or the like, any	13	A. Yes, I do.
14	withdrawal of an instruction, any examination of Design	14	Q. I've marked that the bit you disagreed to was that "MTR
15	Data and any checking of any setting out of any line or	15	continually requested that the RISC forms be provided"?
16	level) on the part of the Engineer, the Engineer's	16	A. Yes, correct.
17	Representative, any assistant of the Engineer's	17	Q. Am I right in thinking that you have not troubled
18	Representative duly appointed under Clause 2.4 or any	18	yourself to look at the evidence that was given by the
19	person authorised by the Engineer under Clause 2.5 shall	19	various witnesses concerning that particular matter,
20	in any way relieve the Contractor from any liability,	20	continual requests, during the part of the Inquiry that
21	responsibility, obligation or duty under the Contract or	21	took place in June/July of this year?
22	(in the absence of an express order given pursuant to	22	A. No. I think you are incorrect.
23	Clause 79.1 or 79.4) constitute a Variation or	23	Q. Oh really? So you have reminded yourself of the
24	a Change."	24	evidence?
25	Are you still with me?	25	A. The evidence that I've seen in relation to that,
	Page 74		
	rage 74		Page 76
1	A. Yes.	1	I think, was from Kit Chan.
1 2	<ul><li>A. Yes.</li><li>Q. Whilst it might be thought to have legal connotations,</li></ul>	1 2	I think, was from Kit Chan. Q. So that's the only bit you've troubled to look at, is
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1	assist the learned Commissioners in June and July this	1	Then over the page to BB5198:
2	year?	2	"I confirm that the items in the special request
3	A. Correct, yes.	3	register were raised by me for Leighton to deal with and
4	Q. One can see, can one not, that the reference to their	4	the issue of Leighton's poor performance in terms of
5	evidence is tied into footnotes which refer to,	5	RISC form submissions was first raised in or about May
6	principally, witness statements; do you see that?	6	2015. Two general problems were identified"
7	A. Correct, yes.	7	Then we can see what we are and that's what we've
8	Q. So 41.1:	8	read in MTR's submissions.
9	"As early as 2014, MTR's SIOW at the time, Dick Kung	9	And then 39:
10	complained to Leighton's Kevin Harman about deficiencies	10	"Initially, Leighton had envisaged that the problem
11	in the RISC form submissions, which prompted Leighton to	11	would be resolved soon. Although Leighton had
12	consider possible avenues for improvement".	12	purportedly resolved item 36A on or about 19 August
13	And if we wanted, we could look up the footnotes.	13	2015, the problem of late submissions was in fact not
14	Then 41.2 this is something you might have seen:	14	resolved and I understand that MTR's other witnesses
15	"Kit Chan, MTR's construction manager for	15	will give further evidence in relation thereto."
16	contract 1112 from November 2014 to May 2016, first	16	And we've got other references that we will look at
17	raised the issue with Leighton in or around May 2015,	17	in a minute.
18	and Leighton's Kevin Harman conducted investigations and	18	Then:
19	identified in a series of documents titled 'MTR	19	"In any event, item 36B (ie Leighton was 'not
20	outstanding submission responses 5-week rolling view'	20	submitting RISC records inspection requests')
21	that Leighton was making 'late RISC submissions'	21	persisted."
22	(item 36A) and 'not submitting RISC records inspection	22	Then finally, for our purposes, 41:
23	requests' (item 36B). Leighton did not have any	23	"As shown in the special request for the cut-off
24	immediate solution to resolve the problem, and the	24	date of 19 May 2016 (at around the time when I left
25	planned dates for resolution were continuously	25	contract 1112), the original planned date of resolving
	Page 78		Page 80
1	deferred".	1	item 36B was continuously deferred from 18 May 2015 to
2	Do you see that?	2	30 April 2017, indicating that Leighton did not have any
3	A. Yes.	3	immediate solution to resolve the problem. I understand
4	Q. Then if we were to look at that particular footnote,	4	that MTR's witnesses will give further evidence as to
5	which is at BB8/5197. It starts at BB5187. Now, you	5	the complaints made to Leighton in respect of its poor
6	will see that this is a witness statement of Chan kit	6	RISC form submissions."
7	Lam. Do I understand this is something you've read?	7	Then going back, if we may, to the MTR final
8	A. Yes, that's right.	8	submission we were looking at I think we had got to
9	Q. Then let's go on to BB5197 and pick up paragraph 36:	9	paragraph 41.3:
10	"Leighton's performance in RISC form submissions was	10	"CK Cheung, an MTR ConE II, issued an email dated
11	persistently poor, as its RISC form submissions were	11	15 May 2015 to Leighton's Roger Lai about late
12	either late or not being made at all. Indeed, I have	12	submissions of RISC forms for the works at 1875 [then
13	refreshed my memory with the aid of various documents	13	the reference is given], pointing out that a one-month
14	(as set out below) and I recall that this aspect of	14	delay in submitting RISC forms was unacceptable;
15	Leighton's poor performance was a subject matter of	15	41.4. Sebastian Kong, MTR's graduate engineer at
16	constant reminders to Leighton and I had specifically	16	the time with responsibility for the HHS area, said that
17	raised the issue to Leighton's Kevin Harman.	17	on a number of occasions he reminded Leighton's
18	37. Leighton was aware of MTR's dissatisfaction	18	Matthew Tse and Jeff Lii to submit the relevant RISC
19	with its RISC form submissions and assigned a group led	19	forms for sign-off when he met them on site or spoke to
20	by Kevin Harman to look into the matter. The foregoing	20	them over the phone, but Leighton failed to follow up on
21	is documented in a series of documents prepared by	21	those reminders".
22	Leighton titled 'MTR outstanding submission responses	22	Then over the page, and it's quite a long section
22 23	Leighton titled 'MTR outstanding submission responses 5-week rolling view' and in particular the section	23	but it is important in the light of what you say,
22	Leighton titled 'MTR outstanding submission responses		

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1	responsible for the NAT area, made repeated oral	1	there were two emails, one in 2015 and one in 2017.
2	complaints between 2016 and 2017 to Leighton's	2	Q. Well, there we are.
3	Henry Lai, Chan Hon Sun and Joe Tam. He also raised the	3	Now, in your report at paragraph 54, you say:
4	issue with Kenneth Kong (MTR's senior inspector of works		"I disagree with Mr Rowsell's comment regarding the
5	at the time), who issued an email to Leighton's	5	application of the RISC procedures. In my view,
6	representatives dated 24 May 2017 complaining about	6	Leighton generally complied with the RISC procedures."
7	Leighton's failure to submit RISC forms for hold-point	7	Now, I've got to suggest that that's not correct, is
8	inspections at the NAT, SAT and HHS, and requested	8	it, certainly in terms of documentation?
9	Leighton 'to take immediately [wrong spelling] follow-up	9	A. No, but I think I've distinguished that: that to me
10	action for this issue';	10	there's the inspection process itself and then there's
11	41.6. Victor Tung, MTR's senior inspector of works	11	the documentation or recording of that process.
12	If at the time who was responsible for the SAT and the	12	Q. That's right, because I think I would be right in
13	HHS areas, created a number of WhatsApp groups to keep	13	saying, if we look at Mr Huyghe's presentation
14	records and facilitate communication. For example, on	14	perhaps we could look at that. It's ER, item 6.4, I'm
15	30 June 2015, MTR attempted to chase Leighton for 'hard	15	told, and if we could go to slide 6 I hope that's the
16	copy of inspection form' in the 'HHS 1875 [then we	16	right one; yes, that's the one and here do you see
17	see the reference again]' and 'new underpass' groups,	17	a slide entitled, "Actual RISC form process adopted
18	and similar complaints were made in the 'HHS inspection	18	on site"?
19	group'/inspection group'''.	19	A. Yes, I do.
20	Then, finally, 41.7:	20	Q. One can see, at the top, can one not, the process that
20	"The Commission of Inquiry will no doubt recall that	20	Leightons ought to have adopted in accordance with their
22	Leighton's witnesses' evidence given in	22	contractual obligations?
23	cross-examination readily acknowledged the fact that	23	A. Correct, yes.
24	complaints were in fact made by MTR, or that such	24	Q. Then, at the bottom, just so that certainly I understand
25	complaints were made substantially earlier than	25	this, we can see, can we not, what MTR's role in that
	Page 82		Page 84
1	Leighton's original position."	1	process was?
2	Again, both of those references are footnoted.		-
3	riguin, bour of those references are foothoted.		A Correct ves
	In the light of that Mr Wall and assuming that	2 3	A. Correct, yes. O It's right is it not that so far as the process is
	In the light of that, Mr Wall, and assuming that that submission based upon the evidence is accented by	3	Q. It's right, is it not, that so far as the process is
4	that submission based upon the evidence is accepted by	3 4	Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually
4 5	that submission based upon the evidence is accepted by the learned Commissioners, I trust you'd agree with me	3 4 5	Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually happened?
4 5 6	that submission based upon the evidence is accepted by the learned Commissioners, I trust you'd agree with me that Mr Rowsell and indeed Mr Huyghe were correct to	3 4 5 6	<ul><li>Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually happened?</li><li>A. That's my understanding, yes. Correct.</li></ul>
4 5 6 7	that submission based upon the evidence is accepted by the learned Commissioners, I trust you'd agree with me that Mr Rowsell and indeed Mr Huyghe were correct to agree that MTR continually requested that the RISC forms	3 4 5 6 7	<ul><li>Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually happened?</li><li>A. That's my understanding, yes. Correct.</li><li>Q. Thank you.</li></ul>
4 5 6 7 8	that submission based upon the evidence is accepted by the learned Commissioners, I trust you'd agree with me that Mr Rowsell and indeed Mr Huyghe were correct to agree that MTR continually requested that the RISC forms be provided; that would be right, would it not?	3 4 5 6 7 8	<ul><li>Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually happened?</li><li>A. That's my understanding, yes. Correct.</li><li>Q. Thank you. <ul><li>It would be right, would it not, as Mr Huyghe told</li></ul></li></ul>
4 5 6 7 8 9	<ul><li>that submission based upon the evidence is accepted by</li><li>the learned Commissioners, I trust you'd agree with me</li><li>that Mr Rowsell and indeed Mr Huyghe were correct to</li><li>agree that MTR continually requested that the RISC forms</li><li>be provided; that would be right, would it not?</li><li>A. I would say "continually verbally requested", I think,</li></ul>	3 4 5 6 7 8 9	<ul> <li>Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually happened?</li> <li>A. That's my understanding, yes. Correct.</li> <li>Q. Thank you. <ul> <li>It would be right, would it not, as Mr Huyghe told my learned friend Mr Shieh in his cross-examination, if</li> </ul> </li> </ul>
4 5 6 7 8 9 10	<ul><li>that submission based upon the evidence is accepted by</li><li>the learned Commissioners, I trust you'd agree with me</li><li>that Mr Rowsell and indeed Mr Huyghe were correct to</li><li>agree that MTR continually requested that the RISC forms</li><li>be provided; that would be right, would it not?</li><li>A. I would say "continually verbally requested", I think,</li><li>to complete the sentence.</li></ul>	3 4 5 6 7 8 9 10	<ul> <li>Q. It's right, is it not, that so far as the process is concerned, what Mr Huyghe depicts as happening actually happened?</li> <li>A. That's my understanding, yes. Correct.</li> <li>Q. Thank you. <ul> <li>It would be right, would it not, as Mr Huyghe told my learned friend Mr Shieh in his cross-examination, if you do not have a RISC form, you cannot update your</li> </ul> </li> </ul>
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	Page 85		Page 87
1	A. I disagree. The quality assurance procedure identifies	1	breaking-out process? Sorry, am I looking at the top
2	the process through which you should go for the	2	left?
3	process that you should pass through for any particular	3	Q. Top left.
4	task. Having completed that task, you would not modify	4	A. Next to the gentleman with the hammer?
5	that procedure; it remains a constant during the course	5	Q. What I'm told is that when the opening-up process
6	of the project. Unless there is some deficiency or	6	occurred, this is what the opening-up process revealed.
7	problem identified with it, in which case you would	7	A. Then that's not what you would want to find.
8	revise it, resubmit it to the engineer for approval.	8	Q. Good. I'm glad we've agreed that.
9	Q. I hear what you say about that. Let me try another	9	You are getting a picture, one more picture for you:
10	point on you. It would be right, would it not, that if	10	DD15344. If you look at the two bottom photographs,
11	you do not have the RISC forms, you'd be unable to	11	again can I suggest, to use your term, it's not what you
12	update your RISC form register?	12	would be wanting to find, is it?
13	A. Correct. I would agree.	13	A. That's correct.
14	Q. Okay. Thanks.	14	Q. I'd be right in thinking, would I not, that you,
15	Now, I'd like to look, if I may, at one or two	15	Mr Wall, would have expected Leightons' field
16	photographs of the defective stitch joints with you.	16	supervisors, their field inspectors, to have picked up
17	For that purpose, I would like to go, if I may, to	17	that sort of frankly appalling workmanship?
18	bundle DD15340. That's the first page. Then if we	18	A. Yes, I would have expected this to have been picked up
19	could go to 15341, and if you could manage	19	during the inspection process.
20	(Document rotated by Secretariat)	20	Q. Well, first of all, given the state of that work, the
21	Ah, splendid. If you look at the top right-hand	21	state of that work shouldn't even have been made
22	photograph perhaps I ought to say first: are these	22	available, should it, for any formal hold-point
23	photographs you have seen before, Mr Wall?	23	inspection process? I mean, it's just completely
24	A. No, I don't recall.	24	defective?
25	Q. But presumably, if you look at the photograph, top	25	A. I think that's a fair point.
	Page 86		Page 88
1	right-hand corner, this is taken in the stitch joint,	1	Q. And that sort of defective work ought to have been
2	and it shows, does it not, a coupler which has not been	2	picked up, should it not, during the installation
3	connected to the rebar?	3	process as well by Leightons' workers?
4	A. That's correct, yes.	4	A. Yes.
5	Q. And similarly, if we were to look in the bottom	5	Q. Now, from your perspective, as a project management
6	right-hand corner, that also shows, does it not,	6	expert, if you'd seen what we've just seen tapered
7	a coupler which has not been connected to the rebar?	7	bars not screwed in, couplers not aligned, missing
8	A. That's correct, yes.	8	
9		Ŭ	couplers what steps would you have taken?
110	Q. Then if we go over the page to DD15342, and again if it	9	A. Is this prior during the process of the works or
10	could be turned yes, I think that's slightly	9 10	A. Is this prior during the process of the works or prior to
11	could be turned yes, I think that's slightly better let's have a look at the bottom right. Again	9 10 11	<ul><li>A. Is this prior during the process of the works or prior to</li><li>Q. During the process of the works.</li></ul>
11 12	could be turned yes, I think that's slightly better let's have a look at the bottom right. Again we can see there, can we not, not only that the couplers	9 10 11 12	<ul><li>A. Is this prior during the process of the works or prior to</li><li>Q. During the process of the works.</li><li>A. I think, at the very least, I would have raised an NCR</li></ul>
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	Page 89		Page 91
1	CHAIRMAN: Yes. Certainly.	1	the stitch joints?
2	I don't know if Mr Pennicott has mentioned to you	2	A. Yes.
3	MR PENNICOTT: I haven't, sir. Perhaps everybody can	3	Q. The transcript records that one of the things you'd have
4	indicate Mr Boulding can indicate how much longer and	4	done as an expert project manager is to have ensured
5	other counsel could indicate, because I know we want to	5	that Leightons issued an NCR in such circumstances. Do
6	finish around 4.00 or 4.30, if at all possible, this	6	you remember giving me that answer?
7	afternoon.	7	A. Yes, correct.
8	CHAIRMAN: Yes.	8	Q. And presumably you, as a project management expert,
9	MR BOULDING: Half an hour/45 minutes.	9	would not only have ensured that an NCR was issued, you
10	CHAIRMAN: All right. Fine. And?	10	would have also seen that it was closed out, would you
11	MR KHAW: Half an hour.	11	not?
12	CHAIRMAN: Okay. Mr Shieh? Difficult to say, of course.	12	A. Absolutely. When I say "raised", I mean raised the
13	Mr Clayton, I'm so sorry.	13	process, followed through and closed out.
14	MR CLAYTON: You were quite right, sir. I have no questions	14	Q. I thought you did, and of course closed out before the
15	at the moment.	15	work in question was offered up for any further
16	CHAIRMAN: Please forgive me. No rudeness was intended.	16	hold-point inspection?
17	Mr Shieh?	17	A. Correct.
18	MR SHIEH: So far, any scope for re-examination is limited.	18	Q. Thank you. And you will know, will you not, that
19	CHAIRMAN: All right. Good.	19	Leightons' evidence is that the failure to provide RISC
20	MR PENNICOTT: Sir, we will take a view to see where we've	20	forms timeously or in some cases at all was due to the
21	got to at the end of Mr Wall's evidence, but I may be	21	fact that their engineers were constantly busy and fully
22	reluctant to call Mr Rowsell this afternoon, simply on	22	occupied? You have read that evidence, have you?
23	the basis we're not sitting tomorrow.	23	A. I have read evidence where engineers have said they were
24	CHAIRMAN: No.	24	busy and had a heavy workload. I don't recall, off the
25	MR PENNICOTT: And if we're going to not finish Mr Rowsell	25	top of my head, someone saying, "I was busy, therefore
	Page 90		Page 92
1	then I'd rather not start him. But let's see where we	1	I did not submit a RISC form."
2	get to.		
-	6	2	Q. Okay. Let's just see if we can assist you in that
3	CHAIRMAN: The only reason I ask is that I would need to	2 3	Q. Okay. Let's just see if we can assist you in that respect. If you could go, please, to tab 10 at CC6498.
	C .		
3	CHAIRMAN: The only reason I ask is that I would need to leave, as indicated, fairly early. There's a religious obligation I have tomorrow, it's a very solemn one for	3	respect. If you could go, please, to tab 10 at CC6498.
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3 4 5	CHAIRMAN: The only reason I ask is that I would need to leave, as indicated, fairly early. There's a religious obligation I have tomorrow, it's a very solemn one for	3 4 5	respect. If you could go, please, to tab 10 at CC6498. Here I hope we've got the first page of a witness statement from a Mr Daniel Teoh; do you see that?
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	Page 93		Page 95
1	A. Yes, now that rings a bell, yes.	1	Is that something you've read before?
2	Q. Good. Then paragraph 24, just for good measure:	2	A. Yes.
3	"When I left the project in November 2016, I did not	3	Q. Perhaps one or two more. CC3824, please. Picking it up
4	know how many RISC forms were outstanding for the formal	4	at 3818, just so that Mr Wall can see who is giving this
5	inspections in my areas of the HHS. I had assumed that	5	evidence: Mr Alan Yeung there. Do you see his first
6	other supervisors in Leighton would follow up with my	6	witness statement?
7	engineers if any were not completed."	7	A. Yes.
8	Let's have a look at another one. Raymond Tsoi.	8	Q. Paragraph 1: senior engineer.
9	This is CC3795, starting at 3790.	9	Do you recall seeing this witness statement before?
10	Raymond Tsoi, you will see from paragraph 1 he was	10	A. Possibly. The name doesn't ring a bell but
11	an engineer employed by Leighton. Is this a witness	11	Q. Doesn't ring a bell. Let's see if I can ring a bell.
12	statement you've seen before?	12	Go to 3824, paragraph 22:
13	A. I believe so, yes.	13	"I tried my best to submit RISC forms for all formal
14	Q. You don't think so?	14	inspections but I must have forgotten to submit the ones
15	A. No, I believe I have seen it.	15	that are outstanding. I was constantly busy supervising
16	Q. All right. Let's have a look at 3795, paragraph 20,	16	the works, completing inspections and attending to other
17	please:	17	necessary tasks. For this reason, I did not have time
18	"The reason why I did not submit those RISC forms is	18	to review all of the RISC forms that I had issued in
19	that I was constantly busy supervising the works in	19	order to consider if I had missed any of them."
20	order to meet the progress, completing inspections and	20	Do you recall reading that?
21	attending to other necessary tasks such as all sorts of	21	A. Yes.
22	paperwork and coordination to avoid delay to the	22	Q. Then perhaps just one more. Let's have a look at
23	works, but not limited to the SAT EWL area. I did not	23	Mr Ronald Leung, CC3832, starting at 3828.
24	have time to prepare all of the RISC forms and review	24	A. Yes, I've got that.
25	those which I had issued in order to consider if I had	25	Q. Do you recall reading this?
	Page 94		Page 96
1			
1	missed any."	1	A. Yes, I recognise Ronald's name.
1 2	missed any." So you recall that now?	1 2	<ul><li>A. Yes, I recognise Ronald's name.</li><li>Q. You can see he's a site agent in paragraph 1.</li></ul>
	-		-
2	So you recall that now?	2	Q. You can see he's a site agent in paragraph 1.
2 3	So you recall that now? A. Yes.	2 3	<ul><li>Q. You can see he's a site agent in paragraph 1.</li><li>A. Yes.</li></ul>
2 3 4	So you recall that now? A. Yes. Q. Then perhaps another one because I want to be fair to	2 3 4	<ul><li>Q. You can see he's a site agent in paragraph 1.</li><li>A. Yes.</li><li>Q. Then if you would go over to 3832 paragraph 19:</li></ul>
2 3 4 5	So you recall that now? A. Yes. Q. Then perhaps another one because I want to be fair to you. If we could go to CC3814, perhaps starting at	2 3 4 5	<ul> <li>Q. You can see he's a site agent in paragraph 1.</li> <li>A. Yes.</li> <li>Q. Then if you would go over to 3832 paragraph 19: "I did not know during the period of construction of</li> </ul>
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	Page 97		Page 99
1	if you wanted, it is in fact the case, is it not, that	1	not, and the fact that Leightons were not properly
2	Leightons' evidence that their failure to provide the	2	resourced, that it must have been a conscious decision
3	RISC forms timeously or at all was due to the fact that	3	on Leightons' part not to comply fully or in some cases
4	their engineers were constantly busy, fully occupied,	4	at all with the RISC form procedure? That must follow,
5	working on other things?	5	mustn't it?
6	A. That's the position of the engineers, yes.	6	MR SHIEH: Can I just clarify one point, because it says
7	Q. And this, I suggest, was an issue of under-resourcing on	7	"a conscious decision on Leightons' part". Is my
8	the part of Leighton; correct?	8	learned friend asking about Leighton's engineers or
9	A. I can't comment on that.	9	certain other people in Leighton? Because "Leightons'
10	Q. Well, you're a project management expert. If it be the	10	part" could well be ambiguous.
11	case that these engineers, sub-agents and the like are	11	MR BOULDING: I will rephrase the question. I don't accept
12	saying that they were too busy doing other things to	12	it was ambiguous.
13	fill in the RISC forms, it follows, does it not, that	13	The people we are looking at here, their witness
14	Leightons have not provided enough resources to do it?	14	statements, it shows, does it not, firstly that they
15	A. Not necessarily. What I'm saying is I can't objectively	15	were aware of their obligation to comply with the RISC
16	opine on whether they were too busy or they were	16	form procedure?
17	inefficient.	17	A. That's correct. They were aware of the need to submit
18	Q. I'm not asking you to. I'm just asking you to look at	18	the RISC forms, yes.
19	your client's evidence. Evidence is ultimately a matter	19	Q. And in circumstances where they were too busy,
20	for the Commission of Inquiry, but if that evidence is	20	preoccupied with doing other things, they took, did they
21	accepted, that they were too busy, they were occupied	21	not, a conscious decision not to comply with the RISC
22	doing other things, can I suggest to you, from a project	22	form procedure?
23	management perspective, it looks as though that aspect	23	A. Well, as individuals, they prioritise their tasks and,
24	of the works was under-resourced by Leightons, doesn't	24	yes, the RISC form the submission of the paperwork
25	it?	25	for the RISC form was de-prioritised.
	Page 98		Page 100
1	A. It appears, based on their statement, that that's the	1	Q. And that de-prioritising was part of a conscious
2	case, yes.	2	decision, I suggest, by the individuals in question.
3	Q. Okay. And, as a result of that under-resourcing, it	3	MR SHIEH: Is that is not a matter of submission rather than
4	also appears to be the case, does it not, that Leightons	4	
5	•		project management expert opinion?
6	took a conscious decision not to comply fully or indeed	5	project management expert opinion? MR BOULDING: I can see that my learned friend is rather
	took a conscious decision not to comply fully or indeed in some cases at all with the RISC form procedure? That	5 6	MR BOULDING: I can see that my learned friend is rather
	in some cases at all with the RISC form procedure? That	6	MR BOULDING: I can see that my learned friend is rather sensitive at this particular line of questioning, but in
7	in some cases at all with the RISC form procedure? That must follow, mustn't it?	6 7	MR BOULDING: I can see that my learned friend is rather sensitive at this particular line of questioning, but in my submission there is nothing wrong with that
7 8	<ul><li>in some cases at all with the RISC form procedure? That must follow, mustn't it?</li><li>A. You'll have to explain that further for me. I don't</li></ul>	6 7 8	MR BOULDING: I can see that my learned friend is rather sensitive at this particular line of questioning, but in my submission there is nothing wrong with that particular question.
7 8 9	<ul><li>in some cases at all with the RISC form procedure? That must follow, mustn't it?</li><li>A. You'll have to explain that further for me. I don't quite</li></ul>	6 7 8 9	<ul><li>MR BOULDING: I can see that my learned friend is rather sensitive at this particular line of questioning, but in my submission there is nothing wrong with that particular question.</li><li>CHAIRMAN: Yes, you may ask the question.</li></ul>
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25 (Pages 97 to 100)

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

	Page 101		Page 103
1	paragraph 32 together:	1	A. Sorry, what should not have created an impression?
2	"The records in the HHS inspection group and	2	Q. This evidence.
3	inspection group paint the following general picture	3	A. Oh, okay.
4	[WhatsApp screen captures]:	4	Q. Let me start again.
5	(1) I and my colleagues had to chase Leighton to	5	As Mr Huyghe told the Commission of Inquiry by
6	submit RISC forms;	6	reference to this evidence, Mr Tung's evidence, from
7	(2) There were occasions, for example for drainage	7	a project management perspective this evidence should
8	pipe air tests, where I had provided all relevant	8	not have created an impression within Leighton that the
9	inspection data to Leighton's Lam Wai Chung and reminded		RISC forms were not a priority for MTR. It should not,
10	him to submit the requisite RISC forms;	10	should it?
11	(3) Leighton would often inform me of the location	11	A. Sorry, I'm still not clear what evidence you refer to
12	to be inspected on date (the ad hoc hold-point	12	the WhatsApp message from Victor or
13	inspections referred to earlier) with a promise that the	13	Q. The evidence generally in paragraph 32.
14	relevant RISC form would follow;	14	Perhaps it would assist you if I take you to what
15	(4) In purported compliance with my request to	15	Mr Huyghe said. If you would be kind enough to go to
16	provide a formal written record of a request for	16	the transcript for Day 16. You've had the opportunity
17	inspection, Leighton would on occasions send through	17	to read this transcript, have you, Mr Wall?
18	a photograph by WhatsApp of a RISC form to be submitted	18	A. I have, yes.
19	and treat the photograph as a formal request for	19	Q. Splendid. If we could go to I think we can pick it
20	inspection;	20	up at page 124, and you will see there, from line 7,
21	(5) on one occasion in December 2015, Leighton sent	21	that Mr Huyghe is being referred to Mr Tung's witness
22	over to me four months' worth of RISC forms in one go	22	statement, the same witness statement I've just taken
23	for me to fill out."	23	you to.
24	Just pausing there, from a project management	24	A. Yes.
25	perspective, that's not the sort of modus operandi that	25	Q. I don't need to read it all, but if you look down at the
	Page 102		Page 104
1	-	1	
1 2	Page 102 you would approve of, is it? A. No, it's not.	1 2	bottom of the page, you will see that Mr Huyghe is
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	Page 105		Page 107
1	responding to WhatsApp messages, on the part of MTR, for	1	If we could go to paragraph 34, here we can see, can we
2	me gave an impression that the RISC forms were not	2	not, that Mr Huyghe is talking about this method
3	a priority, despite Mr Tung's assurances to the	3	statement and the provisions of appendix Z2. Do you see
4	contrary.	4	that?
5	Q. But the one thing we are able to agree, are we not, is	5	A. I do, yes.
6	that there was certainly no evidence of an official	6	Q. If you would be kind enough to look at the penultimate
7	relaxation of the RISC form procedure?	7	sentence and the last sentence. He says:
8	A. Correct. I would agree with that.	8	"However, in this case where the couplers used under
9	Q. We looked, did we not, earlier today at clause 2.9 of	9	contract 1111 and contract 1112 are different, it would
10	the Conditions of Contract, which effectively says	10	be necessary to have a specific method statement
11	anything the engineer says or does does not allow the	11	covering the stitch joints in question. In fact, it is
12	contractor to ignore its contractual obligations?	12	important to point out that Leighton did not fully carry
13	A. Correct, yes.	13	out its interface obligations as set out in table Z2.1.2
14	Q. We've seen evidence from one or two of the witness	14	exchange of design information [then he gives
15	statements that Leighton were promising, individuals	15	a reference] as enclosed in appendix Z2 of PS (see
16	from Leighton were promising, that the RISC forms would	16	below)."
17	be produced; you've seen that evidence?	17	So if we can scroll down slightly. Splendid. There
18	A. I have, yes.	18	we've got the relevant extract from Z2, have we not,
19	Q. And presumably you would accept that MTR should have	19	Mr Wall?
20	been able to rely upon those promises?	20	A. We have, yes.
21	A. That would be a reasonable assumption, yes.	21	Q. This is something you have expressed a view on. We can
22	Q. Can I suggest that when Leighton finally realised that	22	see the interface item number, and firstly what the 1111
23	it was not going to be able to comply with its	23	contractor is supposed to do; do you see that?
24	contractual obligations concerning the RISC form	24	A. Yes.
25	process, that from a project management perspective what	25	Q. Then what the 1112 contractor is supposed to do;
	Page 106		Page 108
1	it ought to have done is to have set up a joint meeting	1	correct?
2	with MTR, with a view to coming up with an alternative	2	A. Correct.
2 3	formalised process so far as the RISC forms were	2 3	Q. And of course that's Leighton. And:
			<ul><li>Q. And of course that's Leighton. And:</li><li>"To review and take into account of the information</li></ul>
3	<ul><li>formalised process so far as the RISC forms were concerned?</li><li>A. Yes. If they were satisfied that they were not able to</li></ul>	3	<ul><li>Q. And of course that's Leighton. And:</li><li>"To review and take into account of the information provided by 1111 contractor in his construction sequence</li></ul>
3 4 5 6	<ul><li>formalised process so far as the RISC forms were concerned?</li><li>A. Yes. If they were satisfied that they were not able to fulfil that obligation, and that that obligation would</li></ul>	3 4 5 6	<ul> <li>Q. And of course that's Leighton. And:</li> <li>"To review and take into account of the information provided by 1111 contractor in his construction sequence and method statement for contract 1112."</li> </ul>
3 4 5 6 7	<ul><li>formalised process so far as the RISC forms were concerned?</li><li>A. Yes. If they were satisfied that they were not able to fulfil that obligation, and that that obligation would be strictly enforced, then I would agree with you.</li></ul>	3 4 5 6 7	<ul> <li>Q. And of course that's Leighton. And:</li> <li>"To review and take into account of the information provided by 1111 contractor in his construction sequence and method statement for contract 1112."</li> <li>Then "Purpose of interface":</li> </ul>
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3 4 5 6 7 8 9	<ul><li>formalised process so far as the RISC forms were concerned?</li><li>A. Yes. If they were satisfied that they were not able to fulfil that obligation, and that that obligation would be strictly enforced, then I would agree with you.</li><li>Q. Okay. Now, I wonder whether we can discuss interface management. My notes tell me that I need to have a look</li></ul>	3 4 5 6 7 8 9	<ul> <li>Q. And of course that's Leighton. And:</li> <li>"To review and take into account of the information provided by 1111 contractor in his construction sequence and method statement for contract 1112." Then "Purpose of interface":</li> <li>"To review and confirm the information for planning the sequence and method statement at the interface</li> </ul>
3 4 5 6 7 8 9 10	<ul><li>formalised process so far as the RISC forms were concerned?</li><li>A. Yes. If they were satisfied that they were not able to fulfil that obligation, and that that obligation would be strictly enforced, then I would agree with you.</li><li>Q. Okay. Now, I wonder whether we can discuss interface management. My notes tell me that I need to have a look at paragraph 47 of your report.</li></ul>	3 4 5 6 7 8 9 10	<ul> <li>Q. And of course that's Leighton. And:</li> <li>"To review and take into account of the information provided by 1111 contractor in his construction sequence and method statement for contract 1112." Then "Purpose of interface":</li> <li>"To review and confirm the information for planning the sequence and method statement at the interface location."</li> </ul>
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>formalised process so far as the RISC forms were concerned?</li> <li>A. Yes. If they were satisfied that they were not able to fulfil that obligation, and that that obligation would be strictly enforced, then I would agree with you.</li> <li>Q. Okay. Now, I wonder whether we can discuss interface management. My notes tell me that I need to have a look at paragraph 47 of your report. Here you say: <ul> <li>"I disagree with Mr Rowsell's statement that the absence of a method statement specific to the stitch joints is a failure to deliver the contract requirements."</li> <li>So, whilst you are disagreeing with Mr Rowsell, I nevertheless take up the cudgel on his behalf, and you say:</li> <li>"There is no explicit provision in appendix Z2 of the particular specification that requires a distinct method statement to be provided for the stitch joints." Do you see that?</li> </ul> </li> </ul>	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. And of course that's Leighton. And: "To review and take into account of the information provided by 1111 contractor in his construction sequence and method statement for contract 1112." Then "Purpose of interface": "To review and confirm the information for planning the sequence and method statement at the interface location." I suggest that that makes it plain that a method statement was indeed required in respect of the stitch joints?</li> <li>A. I disagree. I think this to me, all this requires is a particular level of detail in relation to the stitch joint. I don't see any obligation to provide a distinct method statement for the stitch joint, which was the point that I made in my report.</li> <li>Q. Well, if you were talking about the interface location between contract 1111 and 1112, one of the interface locations would be at the stitch joint, wouldn't it?</li> <li>A. It would.</li> </ul>

27 (Pages 105 to 108)

	Page 109		Page 111
1	indeed provide for it?	1	method statement which is submitted by the contractor,
2	A. I think that's what I've said, but what I've said is	2	here Leighton, does indeed contain the agreed and
3	that it doesn't need to be a distinct document.	3	finalised interface details with contract 1111,
4	Q. Well, if it wasn't a distinct document, what would it	4	including at the stitch joints?
5	be?	5	A. Correct, yes.
6	A. It would still be a method statement.	6	Q. Perhaps just one more. If we look at C2291, and here we
7	Q. It would still be a method statement, but you are	7	are in another section of the Particular Specification,
8	disagreeing with me?	8	Mr Wall, P28, "Construction submissions and records"; do
9	A. Well, no. The point that I made was that appendix Z2	9	you see that?
10	requires the production of a method statement. As far	10	A. Yes.
11	as I would interpret things, it does not require	11	Q. Is this a part of the contract that you've had
12	a distinct method statement or a separate method	12	an opportunity to look at before?
13	statement for the stitch joint works. To me, that's	13	A. Yes, I believe it is.
14	reading or adding in something into the specification	14	Q. Then P28.3:
15	that's not explicitly there.	15	"The Contractor shall be responsible for the
16	Q. But, from a project management perspective, you would	16	production of detailed method statements and submission
17	have to accept, would you not, that that is one of the	17	to the Engineer for approval. The Contractor shall
18	most important matters at the interface between	18	allow in his method statements for the coordination of
19	1111/1112?	19	inputs provided by the Designated and Interfacing
20	A. Correct, and I think I've made that point in my report,	20	Contractors."
21	that the method statement should include an appropriate	21	I would be right in thinking, would I not, that
22	level of detail for the stitch joint, but it doesn't	22	an interfacing contractor would in fact be Gammon on
23	have to be a distinct document.	23	contract 1111?
24	Q. Right. And of course there are other provisions in the	24	A. That would be correct, yes.
25	contract, I suggest, which are to the effect that the	25	Q. Then we can see for ourselves what each method statement
	Page 110		Page 112
1	1112 contractor, Leightons, ought to have provided	1	needs to include.
2	a method statement in these circumstances.	2	Now, staying with method statements, I think one of
3	I wonder if I can refer you to the Particular	3	the points you make in paragraph 112 of your report
4	Specification. C2158. There do you see the Particular	4	there you say that the requirement for method statements
5	Specification?	5	was not enforced by MTR during the administration of the
6	A. Yes.	6	works. Do you see that view you've expressed there?
7	Q. You've seen that document before, have you, Mr Wall?	7	A. Correct, yes.
8	A. Yes.	8	Q. But it would be right, would it not, having regard to
9	Q. That's just to pick up the front sheet. If you would be	9	our earlier discussion concerning clause 2.9 of the
10	kind enough to go on to C2209. There do you see	10	Conditions of Contract, that the mere fact, if it be
11	a section headed, "Design responsibility"?	11	correct, that MTR did not enforce the requirement for
12	A. Yes.	12	a method statement, that that would not exonerate the
13	Q. Then over the page, C2213, would you be kind enough to look at alouse P7 3 17:	13	contractor from his contractual obligation to provide
14 15	look at clause P7.3.17: "The Contractor shall submit the tunnel construction	14 15	one? A. That's correct.
15 16	method statement and design drawings for the station and	15 16	<ul><li>A. That's correct.</li><li>Q. As Mr Huyghe opines in paragraph 25 of his second</li></ul>
10	associated tunnels or ducts adjacent to the	10 17	c. As wir Huygne opines in paragraph 25 of his second report perhaps we could just have a quick look at
17	Contract 1111 within 3 months of Date for Commencement		that. It's $ER(COI2)1_{6.3}$ . Then if we could go to
18	for Approval and Contract 1111 review, and shall	18 19	page 7, and if you would be kind enough to look at
20	coordinate with the Engineer and Contract 1111 to agree	20	page 7, and if you would be kind enough to look at paragraph 25, the first sentence:
20	coordinate with the Engineer and Contract 1111 to agree	20	paragraph 25, the mist sentence.
		21	"In the event that Leighton had prepared a method
	and finalise the interface details."	21 22	"In the event that Leighton had prepared a method statement dealing specifically with the way in which the
22	and finalise the interface details." A. Yes.	22	statement dealing specifically with the way in which the
	and finalise the interface details."		

	Page 113		Page 115
1	Now, I assume that that is a statement with which	1	as a breakdown in the transmission of information.
2	you'd agree, Mr Wall?	2	Q. Right. I'll come to the drawings in due course, but
3	A. Not entirely. To me, the proper inspections would arise	3	thank you for that answer.
4	from an appropriately constructed inspection and test	4	If I can look at paragraph 64 of your report. Here,
5	plan, not from a method statement.	5	once again, you are responding to Mr Rowsell but I will
6	Q. But what I suggest that Mr Huyghe is saying is that had	6	take up the cudgel on his behalf:
7	the method statement been prepared, the parties would	7	"64. While I agree that the inspection procedure
8	have had the information to know what they were looking	8	has some good components, I am of the opinion that it
9	for. If I put it that way, presumably you would agree	9	could be improved further so as to ensure that all
10	with that, because they've got a method statement, it	10	parties were aware of the number of RISC forms that
11	sets out what should be at the interface; they can look	11	would be expected prior to the commencement of
12	at it and say, "Have I got this or haven't I got this?"	12	particular activities. This could readily be dealt with
13	That's something you'd go along with, is it not?	13	by the relevant method statements. I understand that
14	A. Yes, that's a reasonable point, yes.	14	Leighton has now implemented such an arrangement within
15	Q. Then just one point that I would like to pick up with	15	its own enhanced quality assurance procedures."
16	you. Mr Huyghe's first report, please, at	16	It's right, is it not, that under the contract
17	paragraph 128. It's the third sentence. Do you see	17	Leighton was responsible for devising the construction
18	where Mr Huyghe says:	18	sequence and the hold points involved in the
19	"In Leighton's closing submissions at paragraph 48,	19	construction of the work?
20	Leighton acknowledges that its staff by their attendance	20	A. That's correct, yes.
21	at the interface meetings ought to have known that	21	Q. In those circumstances, can I suggest, in both
22	Gammon's couplers were Lenton type couplers but,	22	contractual and practical terms, Leightons was in the
23	unfortunately, omitted to pass such information to	23	best position, firstly, to provide specific details as
24	Henry Lai who was the responsible engineer. It is,	24	to the number of RISC forms anticipated for a particular
25	therefore, my opinion that the procedures and systems	25	activity?
	Page 114		Page 116
1	put in place by Leighton were inadequate for effective	1	A. Correct. I think we discussed that with Mr Chairman
1 2	put in place by Leighton were inadequate for effective interface management since there was no reliable method	1 2	A. Correct. I think we discussed that with Mr Chairman this morning.
2	interface management since there was no reliable method	2	this morning.
2 3	interface management since there was no reliable method to handle transmitting specific design information for	2 3	this morning. Q. Good. Well, I've got the same answer twice, I hope.
2 3 4	interface management since there was no reliable method to handle transmitting specific design information for each interface point."	2 3 4	<ul><li>this morning.</li><li>Q. Good. Well, I've got the same answer twice, I hope.</li><li>And secondly produce a register to track the status</li></ul>
2 3 4 5	interface management since there was no reliable method to handle transmitting specific design information for each interface point." I assume that you would agree with Mr Huyghe's	2 3 4 5	<ul><li>this morning.</li><li>Q. Good. Well, I've got the same answer twice, I hope. And secondly produce a register to track the status of such forms and hold points?</li></ul>
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1	I would venture that there are two types of supervisor.	1	A. I would say, if these are items that are within
2	We have our TCP supervisors who are dealing with	2	intra-project rather than inter-project, then I would
3	quality, the coupler installations, et cetera; but also	3	agree with you, yes.
4	the contract defined "supervisors" as everyone from	4	Q. What do you mean by "intra-project"?
5	a ganger man upwards.	5	A. As in, if there are couplers that are placed within
6	So I'm sure the Commission would not accept that	6	a project for some reason, as specified by the designer,
7	gangers are responsible for achieving our one-to-ten	7	then I would agree that you can just have a General
8	ratio.	8	Specification in relation to couplers. Where you have
9	So I think, to me, this G3.9.1 refers to safety, and	9	external interfaces with other projects, I think that it
10	supervisors under that umbrella is gangers, foremen,	10	is good practice and prudent to specify exactly what the
11	et cetera, all the way up the line, whereas I think if	11	types of couplers are, either in the original design
12	we are talking about coupler installation, then we are	12	drawings or that detail should be included in the
13	talking about the TCP supervisors.	13	as-built construction drawings.
14	So I think there is a clear distinction in the	14	Q. Let's just see if we can close this one out. Could you
15	contract between the two types of supervisor.	15	go to the General Specification for Civil Engineering
16	Q. I think, as the point was made this morning, we may well	16	Works, which is G6464.
17	be getting into contract interpretation here, as to what	17	Is this a document you've looked at before, Mr Wall?
18	a particular clause means, but once one has established	18	A. Yes, I believe it is.
19	what the clause means, you would accept that the fact	19	Q. Splendid. Over the page, 6465, "General Specification
20	that it is in the General Specification, the health and	20	for Civil Engineering Works". And down at 10.5, do you
21	safety section, would not mean that Leighton did not	21	see the heading "Reinforcement connectors"?
22	have to comply with it? Whatever it means, Leighton	22	A. Yes, I do.
23	would have to comply with it, wouldn't they?	23	Q. And a reinforcement connector is, is it not, a coupler?
24	A. Correct, yes, they would have to comply with that	24	A. Correct, yes.
25	requirement.	25	Q. And we can see it says:
	Page 118		Page 120
1	Q. Thank you.	1	"Reinforcement connectors shall be a proprietary
2	Then in 78(a) of your report, here you are	2	type approved by the Engineer."
3	referring, in 78(a), to Mr Rowsell's second report at	3	Do you see that?
4	paragraph 52(a), and you say:	4	A. Yes.
5	"I doubt that the lack of knowledge in the	5	Q. Then if we go on to 6501, "Samples of materials":
6	inspection teams of the different types of couplers that	6	"Unless otherwise permitted by the Engineer, samples
7	would be used at the stitch joints in the NAT would have		of the following proposed materials shall be submitted
8	contributed negatively to the reinforcement inspections	8	to the Engineer for Approval at the same time as the
9	at the stitch joints."	9	general particulars and certificates of the material are
10	Then you express your opinion:	10	submitted"
11			
	"I am of the opinion that such lack of knowledge in	11	Then (b) suffices for my purpose, "reinforcement
12	"I am of the opinion that such lack of knowledge in the inspection teams for the stitch joints primarily	11 12	Then (b) suffices for my purpose, "reinforcement connectors".
			• • •
12	the inspection teams for the stitch joints primarily	12	connectors".
12 13	the inspection teams for the stitch joints primarily stems from a lack of interface coordination, in	12 13	connectors". A. Yes.
12 13 14	the inspection teams for the stitch joints primarily stems from a lack of interface coordination, in particular with respect to the lack of adequate detail	12 13 14	connectors". A. Yes. Q. So that's telling the contractor what he has to do, is
12 13 14 15	the inspection teams for the stitch joints primarily stems from a lack of interface coordination, in particular with respect to the lack of adequate detail contained on the construction drawings."	12 13 14 15	connectors". A. Yes. Q. So that's telling the contractor what he has to do, is it not?
12 13 14 15 16	the inspection teams for the stitch joints primarily stems from a lack of interface coordination, in particular with respect to the lack of adequate detail contained on the construction drawings." Now, do I understand you correctly to be referring to the fact that the construction drawings did not specify the brand of coupler?	12 13 14 15 16	<ul><li>connectors".</li><li>A. Yes.</li><li>Q. So that's telling the contractor what he has to do, is it not?</li><li>A. It is, yes.</li></ul>
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	Page 121		Page 123
1	workmanship"?	1	not at an interface point, then absolutely he should
2	A. Yes.	2	make all these submissions, gain approval, should not
3	Q. Then if you would be kind enough to cast your eye down	3	commence procurement until materials are approved. But
4	to the bottom of the page, P45.8:	4	where there is an interface with a completed piece of
5	"The Contractor shall submit samples of all products	5	work, to me it's incumbent on the designer to specify
6	and materials as may reasonably be directed by the	6	what couplers had been used for that completed piece of
7	Engineer, and shall not confirm orders until Approval	7	work.
8	has been obtained. Approved samples shall be kept on	8	Q. What couplers had been used for the completed works?
9	the Site for comparison with material used in the Works.	9	A. Correct, yes.
10	At the times when there is a choice of materials, colour	10	Q. So we're not talking about the initial drawings for the
11	or texture, samples shall be submitted for Approval."	11	works here, you're not criticising those?
12	Then I think perhaps one further document and then	12	A. For the Leighton contract, no.
13	I'll seek to make my point to you. If you would be kind	13	Q. Good.
14	enough to go to C5 at C3549.	14	Now, 78(b) of your report. This is where you take
15	Start at 3545, just so Mr Wall knows exactly what	15	issue, I believe, with Mr Rowsell's comments concerning
16	we're talking about. There we've got the materials and	16	lack of training in the mechanical fitting of couplers
17	workmanship specification; correct?	17	and the need for different types of reinforcement bars;
18	A. Yes.	18	that's correct, isn't it?
19	Q. Again, a document you've seen?	19	A. Yes.
20	A. I believe so, yes.	20	Q. You say:
21	Q. Good. If you would be kind enough to cast your eye at	21	"I find it difficult to accept that a lack of
22	1.2, under section 1, "Standards and testing", do you	22	training in the mechanical fitting of couplers
23	see "Supply of materials"?	23	contributed to inadequate inspections, as the idea and
24	A. Yes.	24	functioning of a coupler is a simple matter and not
25	Q. Then clause (2):	25	sufficiently complex that it should require technical
	Page 122		Page 124
1	"The Contractor shall submit to the Engineer for	1	training. Notwithstanding, the issue of how couplers
2	Approval details of the proposed materials and suppliers	2	that have been damaged or clogged with concrete should
3	of materials to be incorporated into the Permanent	3	be dealt with may well require training."
4	Works. The Contractor shall supply to the Engineer two	4	You will know, won't you, that training by BOSA was
5	copies in English of the manufacturer's current	5	in fact organised?
6	instructions and explanatory brochures for all	6	A. I believe it was, yes.
7	proprietary materials, at least four weeks prior to the	7	Q. And you will have seen, I assume, a witness statement
8	use of the materials in the Works, unless otherwise	8	from Mr Paulino Lim of BOSA; correct?
9	stated, under cover of a completed materials submission	9	A. The name doesn't ring a bell, but I've
10	form, see Appendix 1.2 for required format and details."	10	Q. I don't want to take you unawares. Let's go to H44824.
11	In those circumstances, what I suggest is that where	11	There we see the first page.
12	the coupler was to be supplied by the contractor and	12	Then if you would be kind enough to go to H44826,
13	approval sought in respect thereof, it is perfectly	13	and here is the relevant extract from his witness
14	understandable that the construction drawings did not	14	statement which he put before the learned Commissioners.
15	specify the brand of coupler, because that was to be	15	Do you see question 5:
16	proposed by the contractor to the engineer for approval.	16	"Please briefly describe your roles and
17	A. I think my sorry, my point was that it was at the	17	responsibilities for the site works."
18	interface. Correct me if I am wrong, contract 1112 was	18	Do you see that?
19	-	19	A. Yes.
117	tying into a completed piece of work. My point was that		
	tying into a completed piece of work. My point was that the drawings for that completed piece of work should		O. Have you seen this witness statement before?
20	the drawings for that completed piece of work should	20	<ul><li>Q. Have you seen this witness statement before?</li><li>A. No, I don't believe I have, no.</li></ul>
	the drawings for that completed piece of work should have specified what couplers had been used, so there was		A. No, I don't believe I have, no.
20 21	the drawings for that completed piece of work should	20 21	<ul><li>A. No, I don't believe I have, no.</li><li>Q. Okay. You can see in his answer to that, can you not,</li></ul>
20 21 22	the drawings for that completed piece of work should have specified what couplers had been used, so there was no uncertainty as to what submission should have been	20 21 22	A. No, I don't believe I have, no.

	Page 125		Page 127
1	Q. Splendid.	1	Question: So is this the first time you've seen it?
2	Now, have you had an opportunity to see what	2	Answer: Just now, when Mr Leung was giving
3	Leighton's witnesses said about the Leighton quality	3	evidence, I also saw this document.
4	supervision plan for the installation of rebars and	4	Question: That's a very accurate answer, if you
5	couplers in part 1 of the Commission of Inquiry?	5	were sat outside. It's the second time you've seen it
6	A. I can't remember the contents of that, I'm afraid.	6	then?
7	Q. Let me just see if I can remind you. If you would be	7	Answer: Yes.
8	kind enough to go to transcript Day 19 this is part 1	8	Question: Was the first time you saw it this
9	of the Inquiry at page 26, please.	9	morning?
10	Picking it up at line 13, Mr Pennicott questions	10	Answer: Yes, you can put it that way."
11	a Mr Chan:	11	Then transcript Day 21, page 13, and here Mr Mok of
12	"Mr Pennicott: Yes. Let me put it again.	12	Leighton is giving evidence, that's line 3:
13	There's a document, Mr Chan, called a quality	13	"Mr Mok, back in 2013, when you were working on the
14	supervision plan, and there is such a document that	14	diaphragm wall works and signing these documents, were
15	specifically relates to the installation of couplers and	15	you aware of a document called the site supervision
16	rebar. Is that a document that you are familiar with?	16	plan?
17	Answer: I never [seen] this document."	17	Answer: Back in 2013? Yes, I was aware of this
18	Then the top of the page, 27, he reiterates that	18	document.
19	point:	19	Question: Were you shown it, back in 2013?
20	"Yes, I see that, but I have not seen it before."	20	Answer: No. No, because there was no need for me
21	Then if we go to Mr Leung, transcript Day 20, start	21	to be one of the parties to TCPs, so I did not see
22	at page 6, and you can pick up from page 5 that it's	22	[this] document at that time.
23	Mr Leung giving evidence here. Line 10 going on to	23	Question: Right. Did you see it subsequently?
24	page 6 for my purposes, line 8, he is asked:	24	Answer: Subsequently, no, not really, not the
25	"Are you familiar with and have you heard of the	25	actual document.
	Page 126		Page 128
1	quality supervision plan in relation to the fixing and	1	Question: Okay. There's also something known as a
2	installation of couplers?	2	quality supervision plan, QSP. Is that a document you
3	Answer: I have no recollection of that.	3	were aware of back in 2013?
4	Question: Could I ask you, please, to be shown H9,	4	Answer: Back in 2013, I did not know what a QSP was
5			· · · · · · · · · · · · · · · · · · ·
	page 4265.	5	referring to."
6	page 4265. You will see, Mr Leung, at page 4265, a document	5 6	
6 7			referring to."
	You will see, Mr Leung, at page 4265, a document	6	referring to." Then perhaps just one more, transcript Day 22,
7	You will see, Mr Leung, at page 4265, a document headed, 'Quality supervision plan on enhanced site	6 7	referring to." Then perhaps just one more, transcript Day 22, page 24, Mr Man page 24, line 10, and it looks as
7 8	You will see, Mr Leung, at page 4265, a document headed, 'Quality supervision plan on enhanced site supervision & independent audit checking by MTRC &	6 7 8	referring to." Then perhaps just one more, transcript Day 22, page 24, Mr Man page 24, line 10, and it looks as though it's Mr Pennicott again:
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	You will see, Mr Leung, at page 4265, a document headed, 'Quality supervision plan on enhanced site supervision & independent audit checking by MTRC & registered contractor for installation of couplers'; do you see that? Answer: Yes, I see it. Question: Is this a document you've seen before? Answer: I have not seen it before." Staying on Day 20, go to page 29, if you would be so kind. Here Mr Ip of Leighton is being questioned. Line 18: "Question: Okay. Can I ask you this, Mr Ip: have you heard of the quality supervision plan, specifically in relation to the installation of couplers? Answer: During the works period, I have not heard of it. It's only recently that I heard about QSP." Then further down, on page 30, he's taken to	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	referring to." Then perhaps just one more, transcript Day 22, page 24, Mr Man page 24, line 10, and it looks as though it's Mr Pennicott again: "Mr Man, a question I've been asking a lot of witnesses: have you heard of the site supervision plan? Answer: (In English) Sorry, SSP? Question: Yes. Answer: (In English) SSP? Yes. (Via interpreter) Yes, I've heard about it. Question: Is it a document you've read? Answer: No, not at that time. Question: That was my next question: you didn't read the site supervision plan, you weren't shown it back in 2015? Answer: Yes. Question: It's a document you only recently read? Answer: Yes.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	You will see, Mr Leung, at page 4265, a document headed, 'Quality supervision plan on enhanced site supervision & independent audit checking by MTRC & registered contractor for installation of couplers'; do you see that? Answer: Yes, I see it. Question: Is this a document you've seen before? Answer: I have not seen it before." Staying on Day 20, go to page 29, if you would be so kind. Here Mr Ip of Leighton is being questioned. Line 18: "Question: Okay. Can I ask you this, Mr Ip: have you heard of the quality supervision plan, specifically in relation to the installation of couplers? Answer: During the works period, I have not heard of it. It's only recently that I heard about QSP." Then further down, on page 30, he's taken to	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	referring to." Then perhaps just one more, transcript Day 22, page 24, Mr Man page 24, line 10, and it looks as though it's Mr Pennicott again: "Mr Man, a question I've been asking a lot of witnesses: have you heard of the site supervision plan? Answer: (In English) Sorry, SSP? Question: Yes. Answer: (In English) SSP? Yes. (Via interpreter) Yes, I've heard about it. Question: Is it a document you've read? Answer: No, not at that time. Question: That was my next question: you didn't read the site supervision plan, you weren't shown it back in 2015? Answer: Yes. Question: It's a document you only recently read? Answer: Yes.

32 (Pages 125 to 128)

	Page 129		Page 131
1	read back in 2015?	1	personnel had been properly trained, at least the
2	Answer: Correct.	2	prospect of those very serious defects we saw in the
3	Question: Have you read the quality supervision	3	photographs being allowed to occur in practice, the
4	plan recently?	4	prospect should be reduced?
5	Answer: Yes, recently."	5	A. No. I disagree that there's a connection between what
6	Now, I could go on, Mr Wall, but that will suffice	6	we saw in the photographs this morning and training of
7	for my purpose. Would you accept that that evidence	7	installation of couplers. I think it's patently obvious
8	shows a clear lack of training so far as Leighton's	8	from those couplers, I think, that they are not
9	staff is concerned?	9	connected in any way, shape or form. It's not that they
10	A. To me, that shows a lack of awareness of the quality	10	have been carried out inappropriately. So no,
11	supervision plan.	11	I disagree, I'm afraid.
12	Q. Yes, and that's because they've not been properly	12	MR BOULDING: Thank you, Mr Wall. I have no further
13	trained so far as the QSP is concerned, is it not?	13	questions for you.
14	A. Sorry, I don't quite follow the connection. That's the	14	WITNESS: Okay. Thank you, Mr Boulding.
15	lack of awareness of a particular document.	15	CHAIRMAN: Sorry, on that one, if I can just take it one
16	Q. But that is the document that is being used on site, the	16	step further might it not have been the case that
17	document that's being used on site in order to set out	17	because the one set of threading was tapered and the
18	what needs to be done so far as the installation of	18	other set of threading wasn't, recognising that you
19	rebars and couplers are concerned; that's right, isn't	19	couldn't make the connection, they didn't make the
20	it?	20	connection at all? So, to that extent
21	A. But, correct me if I'm wrong, these gentlemen are	20	A. I would accept there's a need for training, perhaps,
22	frontline staff, are they not?	22	of to educate people that there are tapered bars,
23	Q. Yes, that's right, and therefore sorry.	23	non-tapered bars, pinned bars; there are various ways of
23	A. I would not be surprised that they were not aware of the		forming coupling joints. But, to me, that is different
25	QSP. I think a more pertinent question would be: are	25	from being trained on installing a particular type of
	Page 130	23	Page 132
1	the contents of the QSP accurately reflected in the ITPs	1	coupler. And I've not seen the training material from
2	and are they aware of the contents of the ITPs? I would	2	BOSA so I can't comment as to whether those issues were
3	not expect these guys to be aware of documents at	3	covered.
4	a higher level than that, personally, but just from	4	CHAIRMAN: Okay. Thank you. Thank you, Mr Wall.
5	a practical perspective.	5	Cross-examination by MR KHAW
6	Q. That does surprise me, Mr Wall. Perhaps I can just put	6	MR KHAW: Good afternoon, Mr Wall. Just a few questions
7	what Mr Huyghe says about this. If you would be kind	7	from the government.
8	enough to go to ER(COI2)1_6.3 at page 8. He says:	8	If I can take you to your report, paragraph 15 of
9	"I also consider that inadequate training and the	9	your report, internal page 4, where you disagree with
10	lack of awareness of Leighton's frontline staff of the	10	Mr Rowsell's interpretation of "full-time and continuous
11	•		-
12	different couplers used at the stitch joints and the	11	supervision", and then you go on to say that you
	different couplers used at the stitch joints and the different supervision/inspection requirements relating	11 12	supervision", and then you go on to say that you acknowledge that the obligation to provide full-time and
	different couplers used at the stitch joints and the different supervision/inspection requirements relating thereto have contributed to the works at the stitch		
12 13 14	different supervision/inspection requirements relating thereto have contributed to the works at the stitch	12	acknowledge that the obligation to provide full-time and
13	different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the	12 13	acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are
13 14	different supervision/inspection requirements relating thereto have contributed to the works at the stitch	12 13 14	acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.
13 14 15	different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or	12 13 14 15	acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement. A. Yes.
13 14 15 16	different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or rectified at the time of the works."	12 13 14 15 16	<ul><li>acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.</li><li>A. Yes.</li><li>Q. So am I right in saying that according to what you said,</li></ul>
13 14 15 16 17	different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or rectified at the time of the works." What I suggest to you, Mr Wall, is that in the light	12 13 14 15 16 17	<ul><li>acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.</li><li>A. Yes.</li><li>Q. So am I right in saying that according to what you said, there should be a difference in terms of the level of</li></ul>
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13 14 15 16 17 18 19	different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or rectified at the time of the works." What I suggest to you, Mr Wall, is that in the light of the evidence we've seen, that opinion is indeed perfectly justified.	12 13 14 15 16 17 18 19	<ul><li>acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.</li><li>A. Yes.</li><li>Q. So am I right in saying that according to what you said, there should be a difference in terms of the level of supervision between couplers which are subject to ductile requirement and couplers which are not subject</li></ul>
13 14 15 16 17 18 19 20	<ul> <li>different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or rectified at the time of the works."</li> <li>What I suggest to you, Mr Wall, is that in the light of the evidence we've seen, that opinion is indeed perfectly justified.</li> <li>A. I disagree. I think the photographs that you showed me</li> </ul>	12 13 14 15 16 17 18 19 20	<ul><li>acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.</li><li>A. Yes.</li><li>Q. So am I right in saying that according to what you said, there should be a difference in terms of the level of supervision between couplers which are subject to ductile requirement and couplers which are not subject to ductile requirement?</li></ul>
13 14 15 16 17 18 19 20 21	<ul> <li>different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or rectified at the time of the works."</li> <li>What I suggest to you, Mr Wall, is that in the light of the evidence we've seen, that opinion is indeed perfectly justified.</li> <li>A. I disagree. I think the photographs that you showed me this morning where a coupler is not even connected to</li> </ul>	12 13 14 15 16 17 18 19 20 21	<ul><li>acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.</li><li>A. Yes.</li><li>Q. So am I right in saying that according to what you said, there should be a difference in terms of the level of supervision between couplers which are subject to ductile requirement and couplers which are not subject to ductile requirement?</li><li>A. To me, there's a difference in the supervision</li></ul>
13 14 15 16 17 18 19 20 21 22	<ul> <li>different supervision/inspection requirements relating thereto have contributed to the works at the stitch joints not being performed in accordance with the contract and the defects not being identified or rectified at the time of the works."</li> <li>What I suggest to you, Mr Wall, is that in the light of the evidence we've seen, that opinion is indeed perfectly justified.</li> <li>A. I disagree. I think the photographs that you showed me this morning where a coupler is not even connected to a threaded bar I think one doesn't really need</li> </ul>	12 13 14 15 16 17 18 19 20 21 22	<ul> <li>acknowledge that the obligation to provide full-time and continuous supervision only applies to couplers that are subject to a ductility requirement.</li> <li>A. Yes.</li> <li>Q. So am I right in saying that according to what you said, there should be a difference in terms of the level of supervision between couplers which are subject to ductile requirement and couplers which are not subject to ductile requirement?</li> <li>A. To me, there's a difference in the supervision requirement for couplers that are specified as ductile</li> </ul>

	Page 133		Page 135
1	Maybe I should start from 128, when Mr Holden was under	1	it would be difficult to verify whether and also how
2	cross-examination by Mr Chow for the government.	2	inspection work had in fact been carried out, and you
3	Line 18, question:	3	agreed with him; is that right?
4	" for the time being. Just park this for the	4	A. It would be difficult, yes, or harder, yes.
5	moment. What I am more concerned with at this stage is	5	Q. Yes. And Mr Boulding also showed you certain pictures,
6	in terms of the level of supervision that is required to	6	photographs, in relation to the disconnection of
7	be provided in the execution of these couplers, the	7	couplers on both sides of the stitch joints, and we have
8	additional couplers that Leighton used.	8	seen that; do you remember that?
9	I'm sure you are aware that in, for example, the	9	A. Yes.
10	platform slabs between within the station area, the	10	Q. Perhaps, just for the record, we can have a look at
11	platform slab and the diaphragm wall we have ductile	11	DD14/15340, and just to refresh our memory the next
12	couplers being used?	12	page, sorry. Yes. I think we have seen some of the
13	Answer: In some locations, not in all. I believe	13	pictures showing the disconnection.
14	in the diaphragm wall there is a clear requirement for	14	If we can go back to your report. First of all,
15	ductile couplers, but the slab 2 diaphragm wall, not	15	would you agree that having seen such disconnection of
16	exactly clear what the requirement is.	16	the couplers on both sides of the stitch joints as shown
17	Question: And you are aware or are you aware of	17	in the photographs that we have looked at, these defects
18	the specific requirements in terms of supervision	18	are things which are not difficult to spot; would you
19	imposed by the government in relation to the	19	agree?
20	installation of the ductile couplers?	20	A. Correct. I would agree.
21	Answer: Ductile and non-ductile, yes. Ductile,	21	Q. So if the personnel or the supervisor or the engineer
22	yes.	22	on site did their job properly, it should have been
23	Question: Also non-ductile couplers, there is also	23	spotted?
24	a certain level of supervision required for those	24	A. I think I would say yes, with the caveat, I think as
25	non-ductile couplers as well?	25	I said this morning, that I believe a number of these
	Page 134		Page 136
1	Answer: I understand.	1	places were very congested, and I think it is possible
2	Question: From my recollection, although it is a	2	that some of these bars were perhaps on lower mats or
3	lower level of supervision, we still need the contractor	3	where there was double mat reinforcement. It may have
4	to provide full-time supervision and need the contractor	4	been the case that it was not possible to see this
5	to assign a specific person as the quality control	5	reinforcement. But if it was on the surface, then
6			Termore ment. Dut if it was on the surface, then
7	coordinator?	-	
/	coordinator? Answer: Sure."	6 7	certainly it should have been immediately visible.
8	coordinator? Answer: Sure." If we can pause here. Did you have a chance to look	6	
8	Answer: Sure."	6 7	certainly it should have been immediately visible. Q. So it depends on where they were located? A. Correct.
	Answer: Sure." If we can pause here. Did you have a chance to look	6 7 8	certainly it should have been immediately visible. Q. So it depends on where they were located?
8 9	Answer: Sure." If we can pause here. Did you have a chance to look at Mr Holden's evidence in this respect in relation to	6 7 8 9	<ul><li>certainly it should have been immediately visible.</li><li>Q. So it depends on where they were located?</li><li>A. Correct.</li><li>Q. I think you have made that point in your report as well.</li></ul>
8 9 10	<ul><li>Answer: Sure."</li><li>If we can pause here. Did you have a chance to look at Mr Holden's evidence in this respect in relation to the ductile and non-ductile couplers?</li><li>A. I don't I'm afraid I don't recall.</li></ul>	6 7 8 9 10	<ul><li>certainly it should have been immediately visible.</li><li>Q. So it depends on where they were located?</li><li>A. Correct.</li><li>Q. I think you have made that point in your report as well.</li><li>A. Yes, and the need to possibly review the approach for ITPs.</li></ul>
8 9 10 11	Answer: Sure." If we can pause here. Did you have a chance to look at Mr Holden's evidence in this respect in relation to the ductile and non-ductile couplers?	6 7 8 9 10 11	<ul><li>certainly it should have been immediately visible.</li><li>Q. So it depends on where they were located?</li><li>A. Correct.</li><li>Q. I think you have made that point in your report as well.</li><li>A. Yes, and the need to possibly review the approach for</li></ul>
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	Page 137		Page 139
1	unusual on a project of this scale.	1	paragraph 71. In the middle, you said:
2	Q. "Not unusual", but would you still say that it's	2	"In practice, defects in the reinforcement were
3	something that one would expect to emerge, in the normal	3	confined to isolated locations at the stitch joints in
4	course of events?	4	the NAT and minor works in the HHS (ie the VRV room)."
5	CHAIRMAN: Sorry, I'm having difficulty. Hasn't that been	5	That is I believe it's the air-conditioning
6	answered? If he's saying, "It's not unusual to see	6	system.
7	this", then he would expect to see it? Sorry, Mr Khaw,	7	A. Yes.
8	I may have got the wrong end of your question. He says:	8	Q. Again, if we can pause here and look at one document.
9	the defect itself is a cause for concern, but their	9	It's BB8/5789. This is an email from the MTR to
10	prevalence, not unusual.	10	Leighton in respect of a defect of rebar fixing at VRV
11	Then your question was: so you say it's something	11	unit footing, dated 30 June 2017.
12	that one would expect to merge?	12	Have you seen this before?
13	But if he's already said its prevalence is not	13	A. I don't recall seeing that before.
14	unusual, then maybe you wouldn't expect it but it	14	Q. Fine. We can look at it now. It says:
15	wouldn't be a surprise?	15	"Please note that the rebar inspection was rejected
16	MR KHAW: I'll move on. Perhaps I will go	16	this pm for the remaining footing at VRV unit, due to
17	MR PENNICOTT: Perhaps, if Mr Khaw is moving on, I asked	17	incomplete fixing of the coupler, refer to the attached
18	Mr Wall some questions about this specific paragraph	18	photographs. More than half of the coupler at the B1
19	this morning, and I thought he had agreed with me that	19	rebar were not properly fixed. Your engineer did not
20	the comments didn't relate specifically to the stitch	20	rectify the defects and decided to cast concrete anyway.
21	joints; he was just making a broad comment of the	21	It is also note[d] that general cleaning inspection was
22	project as a whole, but in relation to the stitch	22	not arranged with our IOW before pouring concrete. This
23	joints, these comments were not appropriate.	23	is unacceptable.
24	CHAIRMAN: He said totally unacceptable. Yes. That's as	24	Please follow up and advise your remedial action."
25	I understood it, yes.	25	Then we can have a look at the photographs below,
	Page 138		Page 140
1	MR KHAW: Yes. If I can then take you to your paragraph 78,	1	and we can see at page 5793 that the coupling work was
2	subparagraph (i), internal page 18, where you I believe	2	not fully done; do you see that?
3	referred to Mr Rowsell's second report, where he said:	3	4 37
4	"doubt has been expressed as to whether some		A. Yes.
	reaction of the second se	4	<ul><li>A. Yes.</li><li>Q. If we look at the evidence from MTR in relation to the</li></ul>
5	inspections actually took place".	4 5	
5 6	_		Q. If we look at the evidence from MTR in relation to the
	inspections actually took place".	5	Q. If we look at the evidence from MTR in relation to the complaints regarding defects found at VRV room, would
6	inspections actually took place". Then you said:	5 6	Q. If we look at the evidence from MTR in relation to the complaints regarding defects found at VRV room, would you still maintain your statement in your report that
6 7	inspections actually took place". Then you said: "I disagree with Mr Rowsell's comment. I have seen	5 6 7	Q. If we look at the evidence from MTR in relation to the complaints regarding defects found at VRV room, would you still maintain your statement in your report that the defects actually in the VRV room are minor?
6 7 8	<ul><li>inspections actually took place".</li><li>Then you said:</li><li>"I disagree with Mr Rowsell's comment. I have seen no evidence that would support a view that there is</li></ul>	5 6 7 8	<ul><li>Q. If we look at the evidence from MTR in relation to the complaints regarding defects found at VRV room, would you still maintain your statement in your report that the defects actually in the VRV room are minor?</li><li>A. Sorry, can I go back to my report, please?</li></ul>
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	Page 141		Page 143
1	A. Yes, I do.	1	which is the primary purpose of the hold-point
2	Q. Where you say, I think:	2	inspection; would you agree?
3	"I find it difficult to accept that a lack of	3	A. So well, so for this I would distinguish between
4	training in the mechanical fitting of couplers	4	inspection quality and inspection accuracy. So I think
5	contributed to inadequate inspections"	5	you can have a high-quality inspection based on
6	If we can then look at the joint statement,	6	an out-of-date drawing. Obviously then you are
7	paragraph 27, page 7. Paragraph 27 says:	7	constructing something that is not correct. But that
8	"In relation to RISC form and inspection procedures,	8	doesn't mean that the inspection itself is a poor
9	we recognise that MTRCL has been considering and	9	quality inspection. So I think it's important to draw
10	developing improved procedures. We consider that the	10	that conclusion.
11	most important aspects of the procedures which require	11	But I would agree that not having up-to-date
12	improvement to address the project management issues	12	drawings results in a risk of you constructing something
13	considered by the Extended Inquiry are:	13	which is incorrect.
14	considered by the Excilided inquiry are.	14	Q. Yes, but I believe in your joint statement with the
15	 (b) Review its training strategies and plans to	14	other experts, paragraph 27(d), I believe you have
16	ensure that staff are provided with the necessary	16	agreed that there's a need to review the arrangements
17	training required to perform their roles effectively.	17	
17	Training systems should be used to verify that	17	"for future projects to ensure site staff are provided
18 19			with the latest working drawings and to ensure that all
	individuals have the required skills, competences and	19	staff have ready access to them [in order] to support
20	experience to perform allocated roles and duties."	20	reliable surveillance and inspection of the works."
21	So despite what you said about training in your	21	A. Absolutely. So, in that respect, as I just said, that's
22	report, in your joint statement you do recognise the	22	to ensure that the works inspected are accurately
23	need to review the training strategies and plans to	23	inspected.
24	ensure that people assigned with the jobs would know how		Q. Yes. So, in that sense, there is a connection between
25	to do their jobs properly?	25	the availability of the working drawings and the
	Page 142		Page 144
1	A. Yes. To clarify, the report I believe was specifically	1	inspection quality; would you agree?
1 2	related to couplers. Our comment in 27(b) in the joint	1 2	A. No. As I said, I think inspection quality and accuracy
2	related to couplers. Our comment in 27(b) in the joint	2	A. No. As I said, I think inspection quality and accuracy
2 3	related to couplers. Our comment in 27(b) in the joint statement is training in general, be that awareness of	2 3	A. No. As I said, I think inspection quality and accuracy are related, but I think it's important to it may
2 3 4	related to couplers. Our comment in 27(b) in the joint statement is training in general, be that awareness of the importance of QA procedures, when to raise NCRs,	2 3 4	A. No. As I said, I think inspection quality and accuracy are related, but I think it's important to it may sound as though I'm splitting hairs, but I think it's
2 3 4 5	related to couplers. Our comment in 27(b) in the joint statement is training in general, be that awareness of the importance of QA procedures, when to raise NCRs, et cetera, so the whole broadbrush and, I think as we	2 3 4 5	A. No. As I said, I think inspection quality and accuracy are related, but I think it's important to it may sound as though I'm splitting hairs, but I think it's important to distinguish between the two, that just
2 3 4 5 6	related to couplers. Our comment in 27(b) in the joint statement is training in general, be that awareness of the importance of QA procedures, when to raise NCRs, et cetera, so the whole broadbrush and, I think as we said at the end, the importance of skill mapping to make	2 3 4 5 6	A. No. As I said, I think inspection quality and accuracy are related, but I think it's important to it may sound as though I'm splitting hairs, but I think it's important to distinguish between the two, that just because you have an out-of-date drawing does not
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	Page 145		Page 147
1	A. I think the simple answer would be there would be no	1	I believe MTRC already has auditing procedures in place
2	point. It would still be a flawed inspection. But	2	to ensure contractors' compliance with these QA plans.
3	I think we were talking earlier about the quality of	3	So I would see these two mechanisms working
4	inspections, so people's ability to understand whether	4	together, providing MTRC a facility to ensure
5	bars are inserted properly, their ability to review	5	compliance.
6	reinforcement, their ability to check that the formwork	6	MR KHAW: Thank you, Mr Wall. I have no further questions.
7	is clean, et cetera. To me, that is one thing. So are	7	WITNESS: Thank you.
8	there technical are they up to the requisite	8	MR CLAYTON: I have no questions, sir.
9	technical standard in terms of reviewing the	9	MR SHIEH: Instead of having a break and then coming back,
10	reinforcement based on the information that they have?	10	I think I might as well get through with my
11	COMMISSIONER HANSFORD: So the wrong bars could be installed	11	re-examination, because it will be extremely short.
12	correctly?	12	CHAIRMAN: I think that's probably the best way. Thank you.
13	A. Correct. So that would to me, that's as I say, we	13	Re-examination by MR SHIEH
14	may be talking around both sides of the same point. So,	14	MR SHIEH: Mr Wall, you remember just now you were asked by
15	to me, that doesn't make it a low-quality inspection.	15	Mr Boulding about certain evidence of Leighton engineers
16	That makes it an inaccurate inspection because they have	16	and when they were asked about their knowledge about the
17	been provided with the wrong information. So the person	17	QSP?
18	doing the job, the carrying out of the inspection, he or	18	A. Yes, I recall that.
19	she has done everything correctly, to the best of their	19	Q. It's at page [draft] 127 onwards. I don't think I need
20	ability, complied with the specification. The problem	20	to turn that up. You were asked about whether the
21	has arisen with the kind of management process in that	21	evidence showed that the Leighton personnel were aware
22	they have not been given the right drawing to ensure	22	of or had knowledge of or were trained in the QSP?
23	that they have inspected the works accurately.	23	A. Yes.
24	COMMISSIONER HANSFORD: But, as a hold-point inspection,	24	Q. Do you remember that
25	Mr Wall, it would have limited value, wouldn't it?	25	A. I remember that, yes.
	Page 146		Page 148
1	A. Yes, it would have no value at all. Yes, it would be	1	Q. Are you aware that in this case there is a dispute as to
2	very problematic.	2	whether the QSP is applicable under the relevant
3	COMMISSIONER HANSFORD: Thank you.	3	instrument to certain zones or areas?
4	MR KHAW: Then finally your paragraph 99, where you said:	4	A. Yes. I'm aware there's an issue.
5	" I am of the opinion that MTRC already has	5	Q. Are you aware that the issue turns on whether or not
6	procedure in place to enable it to monitor the delivery	6	there is a ductility requirement applicable to
7	of reinforcement through the contractors QA procedures.	7	A. Correct, yes, I'm aware of that.
8	Compliance with these procedures could be ensured	8	Q the area in question? So your view is that the QSP
9			Q the area in question: So your view is that the QSI
	through MTRCL's existing QA procedures."	9	would only be applicable in a situation where the area
10	through MTRCL's existing QA procedures." Now, in this case, we know that in fact, we know	9 10	· · · · ·
			would only be applicable in a situation where the area
10	Now, in this case, we know that in fact, we know	10	would only be applicable in a situation where the area in question is subject to a ductility requirement?
10 11	Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of	10 11	<ul><li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li><li>A. Where that ductility requirement has been specified,</li></ul>
10 11 12	Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per	10 11 12	<ul><li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li><li>A. Where that ductility requirement has been specified, yes.</li></ul>
10 11 12 13	Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?	10 11 12 13	<ul><li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li><li>A. Where that ductility requirement has been specified, yes.</li><li>Q. Specified where?</li></ul>
10 11 12 13 14	Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that? A. Yes.	10 11 12 13 14	<ul><li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li><li>A. Where that ductility requirement has been specified, yes.</li><li>Q. Specified where?</li><li>A. In the drawings.</li></ul>
10 11 12 13 14 15	<ul><li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li><li>A. Yes.</li><li>Q. So in fact it's not something discovered by MTRCL. So</li></ul>	10 11 12 13 14 15	<ul><li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li><li>A. Where that ductility requirement has been specified, yes.</li><li>Q. Specified where?</li><li>A. In the drawings.</li><li>Q. So you are aware that there's an issue concerning</li></ul>
10 11 12 13 14 15 16	<ul><li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li><li>A. Yes.</li><li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which</li></ul>	10 11 12 13 14 15 16	<ul><li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li><li>A. Where that ductility requirement has been specified, yes.</li><li>Q. Specified where?</li><li>A. In the drawings.</li><li>Q. So you are aware that there's an issue concerning A. Yes.</li></ul>
10 11 12 13 14 15 16 17	<ul><li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li><li>A. Yes.</li><li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which would enable MTRCL to monitor the delivery of</li></ul>	10 11 12 13 14 15 16 17	<ul> <li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li> <li>A. Where that ductility requirement has been specified, yes.</li> <li>Q. Specified where?</li> <li>A. In the drawings.</li> <li>Q. So you are aware that there's an issue concerning A. Yes.</li> <li>Q the QSP, where it applies, and the condition for that</li> </ul>
10 11 12 13 14 15 16 17 18	<ul><li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li><li>A. Yes.</li><li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which would enable MTRCL to monitor the delivery of reinforcement that you mention in paragraph 99?</li></ul>	10 11 12 13 14 15 16 17 18	<ul> <li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li> <li>A. Where that ductility requirement has been specified, yes.</li> <li>Q. Specified where?</li> <li>A. In the drawings.</li> <li>Q. So you are aware that there's an issue concerning A. Yes.</li> <li>Q the QSP, where it applies, and the condition for that applying?</li> </ul>
10 11 12 13 14 15 16 17 18 19	<ul><li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li><li>A. Yes.</li><li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which would enable MTRCL to monitor the delivery of reinforcement that you mention in paragraph 99?</li><li>A. So where I'm coming from here is that the contractor</li></ul>	10 11 12 13 14 15 16 17 18 19	<ul> <li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li> <li>A. Where that ductility requirement has been specified, yes.</li> <li>Q. Specified where?</li> <li>A. In the drawings.</li> <li>Q. So you are aware that there's an issue concerning</li> <li>A. Yes.</li> <li>Q the QSP, where it applies, and the condition for that applying?</li> <li>A. Yes.</li> </ul>
10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li> <li>A. Yes.</li> <li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which would enable MTRCL to monitor the delivery of reinforcement that you mention in paragraph 99?</li> <li>A. So where I'm coming from here is that the contractor produces his QA plan at the beginning of the project and</li> </ul>	10 11 12 13 14 15 16 17 18 19 20	<ul> <li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li> <li>A. Where that ductility requirement has been specified, yes.</li> <li>Q. Specified where?</li> <li>A. In the drawings.</li> <li>Q. So you are aware that there's an issue concerning</li> <li>A. Yes.</li> <li>Q the QSP, where it applies, and the condition for that applying?</li> <li>A. Yes.</li> <li>MR SHIEH: Thank you very much. I have no further</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li> <li>A. Yes.</li> <li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which would enable MTRCL to monitor the delivery of reinforcement that you mention in paragraph 99?</li> <li>A. So where I'm coming from here is that the contractor produces his QA plan at the beginning of the project and that is subject to approval by the engineer. So there</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li> <li>A. Where that ductility requirement has been specified, yes.</li> <li>Q. Specified where?</li> <li>A. In the drawings.</li> <li>Q. So you are aware that there's an issue concerning</li> <li>A. Yes.</li> <li>Q the QSP, where it applies, and the condition for that applying?</li> <li>A. Yes.</li> <li>MR SHIEH: Thank you very much. I have no further questions. (Tribunal conferring)</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Now, in this case, we know that in fact, we know from Leighton's own admission that about 7 per cent of the reinforcement had not been sampled and tested as per the requirements of CS2. You know about that?</li> <li>A. Yes.</li> <li>Q. So in fact it's not something discovered by MTRCL. So can you tell us more about this procedure in place which would enable MTRCL to monitor the delivery of reinforcement that you mention in paragraph 99?</li> <li>A. So where I'm coming from here is that the contractor produces his QA plan at the beginning of the project and that is subject to approval by the engineer. So there is an avenue or a opportunity there for the engineer to</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>would only be applicable in a situation where the area in question is subject to a ductility requirement?</li> <li>A. Where that ductility requirement has been specified, yes.</li> <li>Q. Specified where?</li> <li>A. In the drawings.</li> <li>Q. So you are aware that there's an issue concerning</li> <li>A. Yes.</li> <li>Q the QSP, where it applies, and the condition for that applying?</li> <li>A. Yes.</li> <li>MR SHIEH: Thank you very much. I have no further questions.</li> </ul>

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Page 149 this matter. WITNESS: Thank you. (The witness was released) CHAIRMAN: Good. So we adjourn for today. MR PENNICOTT: Yes, I think so, sir. Certainly having had a word with one or two of my counsel colleagues at lunchtime, I think there's common ground that even if we were to start Mr Rowsell, we certainly wouldn't finish him this afternoon by a reasonable time. CHAIRMAN: No. MR PENNICOTT: So I think there is a general feeling that we should adjourn now and return at 10 o'clock on Thursday morning. CHAIRMAN: Good. Thank you all very much. (3.52 pm) (The hearing adjourned until 10.00 am the following day)	
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