	Page 1		Page 3
1	Friday, 4 October 2019	1	a few questions for you but I anticipate it won't last
2	(10.04 am)	2	too long.
3	MR PENNICOTT: Good morning, sir, good morning,	3	You describe yourself as the general manager of
4	Prof Hansford.	4	safety, health, environment, quality and sustainability
5	As you're aware, today and certain days next week	5	at Leightons. Is there actually a department within
6	have been set aside for project management expert	6	Leightons with that title or heading?
7	evidence, and we will be hearing in due course from	7	A. Okay, so there are several functional departments which
8	Mr Huyghe, the MTR's expert, Mr Wall, Leighton's expert,	8	make up that heading. So there is a safety department
9	and Mr Rowsell, the Commission's expert.	9	and there is a quality and environmental department.
10	Before we get to all of that, we have in the witness	10	Q. Right. Do you have a team of people working with you?
11	box, as you will recall, Mr Cowley, Leighton's witness.	11	A. Yes, I do. I have a team in Hong Kong and there are
12	Good morning, Mr Cowley.	12	smaller regional teams in India, Southeast Asia.
13	WITNESS: Good morning.	13	Q. What is the size of your team in Hong Kong?
14	MR PENNICOTT: Thank you very much for coming along to give	14	A. In the safety team, I have six people that work directly
15	evidence to the Commission. I will hand over to	15	for me. In the quality team, I currently head up a task
16	Mr Chang who is going to introduce Mr Cowley's evidence.	16	force of 13. They are temporary staff. And I have
17	CHAIRMAN: I can see Mr Clayton in a very elevated position.	17	an additional four full-time staff in the quality space.
18	MR PENNICOTT: He is sat in the circle. Apparently he's the	18	They also manage environment as well.
19	only one who can afford to sit in the circle!	19	Q. You mention the task force a little later in your
20	CHAIRMAN: But I can't read	20	witness statement.
21	MR CLAYTON: It's my solicitor, Mr Chin.	21	A. Yes.
22	MR PENNICOTT: It's Mr Chin, sir.	22	Q. I will come to that in a moment, if I may.
23	CHAIRMAN: It's just that I like to be aware of who is	23	I imagine your team, your safety team, and the
24	sitting in the arena, so to speak.	24	quality and assurance team, they are not
25	Thank you very much.	25	contract-specific; they deal with all the projects and
	Page 2		Page 4
1	MR CHANG: Chairman and Professor, we have Mr Dean Cowley	1	contracts that Leighton has on at any given time. Is
2	MR DEAN COWLEY (affirmed)	2	that right?
3	Examination-in-chief by MR CHANG	3	A. Yes, they work at the corporate level, so they are
4	Q. Mr Cowley, before you will be a document called "Witness	4	business-specific, not contract-specific.
5	statement of Dean Cowley". Do you have that document	5	Q. And how do you interact or communicate with people
6	before you?	6	responsible for the individual projects?
7	A. I do, yes.	7	A. Me personally or my team?
8	Q. Can you turn to the last page of the document. It's	8	Q. Your team.
9	bundle CC11/7293. There's a signature. Can you confirm	9	A. So in the safety space I have two senior safety managers
10	that to be your signature?	10	who obviously report directly to me. Primarily, they
11	A. Yes, it is.	11	are the people who interact mostly with the projects.
12	Q. Do you confirm the contents of this witness statement to	12	And the same in the quality space: I have a group
13	be true and accurate?	13	manager for quality, and it's his responsibility to
14	A. Yes, I do.	14	liaise with the projects.
15	Q. Do you wish the Commission to accept the contents of	15	Q. All right. So, for each project, is there someone
16	this statement as part of your evidence?	16	that's identified and deputed to be, as it were, the
17	A. Yes, I do.	17	liaison officer with that particular project?
18	MR CHANG: What's going to happen next is this. Lawyers	18	A. Well, typically, because you are talking about
19	around the room may have questions for you, the	19	a function, ie the quality function, the group quality
20	Commission may also have questions for you, and if	20	manager, his primary point of contact would be the
21	necessary I will have the last say in re-examination.	21	project quality manager.
22	So please remain seated. The gentleman before me,	22	Q. Right. Understood.
23	Mr Ian Pennicott, will start first.	23	Could I ask you please to be shown on the screen
24	Examination by MR PENNICOTT	24	CC2/526. That's CC file 2, page 526. If we could
25	MR PENNICOTT: Good morning again, Mr Cowley. I do have	25	please go to the top right, pause there, thank you

Page 5 Page 7 very much -- Mr Cowley, you will see you are listed 1 one of the outcomes -- sorry, paragraph 3, let's start 1 2 there, towards the top, as "Leighton head office", 2 there. You say that Leighton established, as part of 3 3 I imagine that means -this process, a quality task force to review corporate 4 A. Yes. 4 management systems, and so forth. Is that quality task Q. -- "General manager -- safety. Dean Cowley." 5 5 force made up entirely of Leighton personnel, or have 6 you seconded in some external help from other, outside, 6 A. Correct. 7 7 Q. Head of quality is somebody called Chris Telford? independent consultants? 8 8 A. The people doing the day-to-day work are full-time A. Correct. 9 Q. And I think that, if we pick up the date, was the 9 Leighton staff, but we did second in an independent 10 10 expert to review some of the work that we were doing, to position as at 31 May 2017. Can we just see on the top 11 left-hand corner whether that's -- yes. So that's 11 validate it. 12 31 May 2017. 12 Q. Right. What sort of discipline was that expert? 13 Then if we could go, please, to page 535 of the same 13 A. He had a quality background. 14 14 Q. A quality background? bundle. Again, I think this is slightly later, this is 15 13 February 2018 -- I'm not sure where I found that 15 A. Yes. 16 before but never mind. Mr Cowley, assuming that that's 16 Q. Okay. Is he there on a sort of permanent basis, 17 February 2018, as I understand it, that essentially 17 throughout -- or has been there on a permanent basis, as 18 18 remains the position up to date; is that right? this QMF has been developed and presumably implemented? 19 19 A. No, he's not been there on a permanent basis, but he's A. Yes, I guess so --20 been consulted with along the journey, if you like. So 20 Q. For you personally? 21 21 A. Yes. I am the general manager of SHEQ but my primary various stages when work was prepared, we would check 22 22 focus, if you like, is safety. The gentleman underneath with him, for him to review and validate. 23 23 me that you can see there is the head of quality who Q. So the whole QMF exercise is being validated by 24 works in the corporate team that reports directly to me. 24 an external, independent consultant? 25 25 Q. All right. But the basic structure has not changed? A. It has been, yes. Page 8 Page 6 A. Correct. 1 1 Q. All right. 2 2 Q. All right. In paragraph 6 on this particular topic, Mr Cowley, 3 3 In paragraphs 3 to 7 of your witness statement, you say: 4 which is bundle C11/7289, you explain what is described 4 "A key goal of the QMF is to develop systems and 5 as the quality management framework, QMF. 5 processes which have a 'end-user focus' ..." 6 6 Can you explain in a little more detail what you 7 Q. You say at paragraph 7, or set out at paragraph 7, the 7 mean by that, "end user focus"? 8 six core elements which make up the QMF. 8 A. I actually took this term from many of the initiatives 9 9 A. Yes. I have launched in the business with safety. It's about 10 Q. You tell us that the QMF has been under development 10 developing tools and processes which actually become 11 since April 2018. What prompted Leighton to start 11 less of a burden to frontline staff, ie frontline 12 developing this QMF? 12 engineers and frontline supervisors. It's about 13 A. Well, obviously when a lot of the issues from 1112 13 developing tools and processes that enable them to do 14 14 started to come to light, we were very interested and their jobs more efficiently and more effectively. 15 obviously we reacted appropriately. 15 Q. So, for "end users", we can read "frontline staff" and 16 Q. Right. I wondered whether that was the position. My 16 "frontline supervisors"? 17 next question was: did you develop this QMF as 17 A. Yes, when I'm talking about end users, that's who I'm 18 a consequence of the matters that that are being 18 talking about, yes. 19 investigated in this enquiry? 19 Q. Thanks very much. 20 20 Could I then just ask you a few questions about A. Not entirely as a consequence of the matters 21 investigated in this Inquiry, no. 21 tracker tools, which you refer to in paragraph 9 of your 22 22 Q. But in part? witness statement at 7290. Here you say: 23 A. In part, yes. 23 "Central to this QMS is the development of 'tracker 24 24 Q. Right. In paragraph 4 of your witness statement, and tools', which are designed specifically to monitor the 25 a point you touched on a short while ago, you say that 25 status of all critical quality verification records that

25

A. Correct, yes.

Page 9 Page 11 are required for the close-out of each element of 1 Q. From their PIMS materials. 1 2 construction. Tracker tools are designed to ensure that 2 3 3 the critical records associated with inspections and Q. And then was a requirement for Leighton --4 tests are compiled and maintained throughout the entire 4 A. Yes. 5 duration of the works and will assist in the completion 5 O. -- carried on down the line, as it were. 6 and handover of fully compliant and defect-free 6 So the new system, the digital system, let's call it 7 7 projects." that, that's being introduced, presumably in future 8 8 Mr Cowley, as you will no doubt be aware, one of the contracts the digitalisation is going to have to be 9 9 matters that has been the subject of some thorough discussed and agreed with MTR or any other employer in 10 10 investigation in the second part of the Inquiry is the the future; is that right? 11 absence of certain RISC forms, R-I-S-C forms. Can you 11 A. Naturally, and that's probably one of the biggest 12 first of all answer this: will the tracker tools system 12 challenges, at an industry level. 13 that you describe there address problems with -- will 13 Q. Right, because it's not only going to require you, 14 14 address the problem of the absence of RISC forms? Leighton, to get away from the paper --15 A. Okay. My answer -- I think I'll have to refer you back 15 A. Correct. 16 to point 7 in my statement, if I may. 16 Q. -- but it's going to require your employers --17 17 Q. Yes. A. Yes. 18 18 A. So we are talking about 7(a) specifically, the quality Q. -- to think in the same way? 19 19 management system. A. But in theory, if a client had a specific form that they 20 20 O. Yes. wanted us to complete, we would be able to digitise that 21 A. So the tracker tool is one element of the quality 21 form. That's how we are developing the software. 22 22 management system that has been improved. Q. I see. All right. 23 The answer to your question in all honesty is 23 One of the other issues that has been investigated 24 probably not, because you have to take a holistic view 24 in the second part of the Inquiry is interface meetings. 25 25 Do you have some knowledge about all of that topic, in to the overall management of quality. When you combine Page 12 Page 10 points (a) and (b) under 7, then my answer would be yes. 1 a general sense, not --1 2 2 Q. Right. I see, yes. So quality management A. I have read one of the expert reports on it so I'm aware 3 3 of the issues surrounding the interface meeting, yes. system/digital tools platform, taken together --4 A. Correct. 4 Q. And essentially what happened was that there were 5 Q. -- you understand or you believe will address the sort 5 interface meetings between Leighton and Gammon, the 6 of problems that have been encountered with the absence 6 next-door contractor, as it were, at which MTR was also 7 of RISC forms? 7 present, and it appears that there was a breakdown of 8 8 communication between the individuals who attended those 9 Q. Can you explain how that is? How is the system going to 9 meetings on behalf of Leighton and the site staff, site 10 ensure that there isn't an absence of RISC forms? 10 engineers and so forth, who were to order the materials 11 A. Okay. So the issue, as I understand it, is the 11 that were required at the interface. 12 capturing of required data and the transparency in the 12 Will the matters that we've been discussing -- the 13 13 interrogation of that captured data. So the digital quality management system/the digital tools platform --14 14 will that assist in addressing that sort of problem, tools platform, one of the aspects of the digital tools 15 15 that communication problem? platform that we are developing is an app-based 16 inspection tool, which can be a RISC inspection. That 16 A. I'm not entirely sure that we've actually understood the 17 information can be captured in realtime data at the 17 extent of that communication problem that you allude to. 18 frontline through your telephone and uploaded 18 As I understand it, the project had an interface 19 automatically onto a database, ie a tracker tool. 19 management plan, they were having interface management 20 meetings. I'm not entirely sure why the communication 20 So the process becomes one that's moved away from 21 paper to a digital platform. 21 that you refer to has broken down. 22 22 Q. Okay. We know that the whole idea of RISC forms, in Q. Right. It's pretty clear that it did break down, 23 23 this particular contract, 1112, that we are concerned Mr Cowley, because it seems pretty clear that, for 24 24 with, actually emanated from MTR. example, Leightons were aware, or everybody who was at

those meetings were aware, including the Leightons

Page 13 Page 15 personnel, that Gammon were using a different type of 1 metrics, ie the things that we measure both at a 1 2 coupler on their side of the joints, stitch joints, and 2 project and a business level, and we've put in place 3 3 what was supposed to have happened was somebody who was a new quality governance framework, both of those are in 4 perhaps a question mark was supposed to investigate the 4 place, and obviously, with the last one, quality culture 5 5 and leadership, this is part of a journey we will be on compatibility or investigate the issue as to whether for obviously the coming years, building the quality there was a compatibility problem, but that never 6 6 7 7 culture within the business. happened, and also didn't pass on the information to the 8 8 COMMISSIONER HANSFORD: Sorry, Mr Cowley, on your point (e), site staff. 9 9 quality governance, can you just explain what actually If that's right as a series of facts, don't you 10 10 think that needs to be looked at and investigated and you have done? 11 11 steps taken to address that problem? A. We've put several new requirements in place. Perhaps 12 A. If it's right as a series of facts, yes, it would be. 12 I'll start from the top. We've now established 13 Q. Okay. But you are not personally aware that any of 13 a quality management committee which consists of all 14 14 these measures that you talk about in your statement are project directors, operations managers, the business 15 designed to address that particular problem? 15 general manager and myself, as well as the group quality 16 manager. We now meet on a monthly basis to review the 16 A. I haven't -- as I say, myself personally, I haven't 17 understood the issue of interface management, and it's 17 quality performance of the business, talk about new 18 18 initiatives and basically how we're tracking. not something that's come up when we've looked at the 19 overall enhancements that we're making to the system. 19 At the project level we have what we call project 20 Q. All right. Can you just give us an update, Mr Cowley, 20 SATQ review meetings on every single project every two 21 21 months. Those project SATQ meetings are attended by as to where you are with progressing and completing the 22 22 myself, the business general manager, the operations exercise on the digitalisation and its development and 23 manager and the project director. And what we're 23 its implementation? Where have you got to? 24 24 A. Perhaps I again draw your attention to item 7. So in actually doing there is really looking in more detail at 25 25 the specific performance of the project. box (a), the enhancements that we have made to the Page 14 Page 16 quality management system on paper, if you like, have CHAIRMAN: Can I ask, these various improvements to the 1 2 2 systems, they will, as a matter of practice, incorporate all been completed and launched across all of our 3 3 better management of interface issues? projects. As I said earlier, we had that independently 4 verified by an independent expert, and we've also now 4 A. Ultimately, yes, I would imagine -- well, I would hope 5 5 had three independent audits by the Hong Kong Quality they would, yes. COMMISSIONER HANSFORD: But they are not designed 6 Assurance Agency to verify that those systems are in 6 7 specifically for interface issues? That's just, if you 7 place and working. 8 8 like, a by-product of it, is it? In addition, project 1112 has just gone through its 9 9 A. I think understanding what's happened in the interface re-certification audit for ISO 9001 with the new system 10 and they've passed the audit. 10 space is probably something that I personally haven't 11 looked at and I haven't considered. I mean, from my 11 With regard to the remaining six items there, the 12 12 digital tools platform is the biggest piece we're perspective and my experience working on a project, if 13 13 you have an interface meeting, it's, you know, Good working on. We've engaged an independent contractor to 14 14 Project Management 101 that you would record the minutes come in and do the work for us, we're on target for 15 15 of that meeting, and the minutes of that meeting would a November launch of the platform. The platform 16 be disseminated. 16 actually consists of nine separate applications. We 17 So I don't really understand what's happened on 17 already had four of those applications built and we are 18 1112. I wasn't working on the project so I couldn't 18 trialling them on several of our projects. So it's 19 a gradual roll-out. 19 speculate. 20 COMMISSIONER HANSFORD: I think the issue, Mr Cowley, migh 20 With regards to the quality best practices, that's 21 something which will be an ongoing evolution. We will 21 be to whom it's disseminated. 22 22 A. Perhaps yes. always be developing quality best practices and we will 23 23 COMMISSIONER HANSFORD: Okay. always be adding to that library of best practices. 24 24 MR PENNICOTT: Sir, I have no further questions, unless you For the quality metrics and the quality governance 25 25 have -- I don't know if anybody else has any questions. piece, we've now put in place a new suite of quality

Page 17 Page 19 COMMISSIONER HANSFORD: Can I just ask one at this point. 1 1 A. Sorry, can you repeat your question? 2 We heard at a much earlier stage of this Inquiry from 2 Q. Yes. The audit was carried out. You've referred to the 3 Mr Kevin Harman --3 fact that the lack of RISC forms was looked at. How can 4 A. Mm-hmm. 4 it be the case that the audit was passed, 5 COMMISSIONER HANSFORD: -- who I understand retired in 5 notwithstanding the lack of RISC forms? Is that 6 January 2018. 6 something you --7 A. He did, correct, yes. 7 A. Sorry, are you talking about an audit before the issues 8 COMMISSIONER HANSFORD: What's the relationship between 8 came to light or an audit subsequent? 9 Kevin Harman and your role? 9 O. Subsequent. 10 A. So Kevin was the project quality manager, and Kevin 10 A. Then I don't understand your question. 11 obviously, at the project level, would have reported 11 Q. Was there no audit subsequent to the RISC form? 12 directly to the project director at that time, who 12 A. There have been several audits. I believe was Malcolm Plummer. 13 13 Q. Yes, quite, and what I would like to know is: the audit COMMISSIONER HANSFORD: Yes. 14 14 that occurred after the RISC form problem came to 15 A. And then functionally, at the corporate level, Kevin 15 light -- are you still with me? 16 would have reported to the group quality manager, 16 17 Mr Chris Telford, as you've seen on the organisation 17 Q. -- how did the audit get passed, notwithstanding the 18 18 lack of RISC forms? COMMISSIONER HANSFORD: And then ultimately to you? 19 19 A. For clarification, that would -- or perhaps the timing 20 A. No, he would have no reporting line to me. He would 20 of the audit you need to understand. The timing of the 21 report to Chris Telford. 21 audit that I'm referring to is following all of our 22 COMMISSIONER HANSFORD: But does Chris Telford not report to 22 system improvements. We've then asked HKQAA to come 23 23 back and re-audit us following the implementation of our 24 A. Chris Telford reports to me, correct. 24 improvements. 25 COMMISSIONER HANSFORD: Sorry, that's what I meant, 25 MR BOULDING: I see. Thank you, Mr Cowley. Page 18 Page 20 1 COMMISSIONER HANSFORD: Just following on from Mr Boulding's "ultimately". 1 2 question then: so was that audit related -- was it 2 A. Sorry, Chris, ultimately, yes. 3 3 COMMISSIONER HANSFORD: Thank you. focused corporately rather than on individual projects? 4 CHAIRMAN: Who is ...? All right, let me point fingers 4 A. Okay, so there were several audits, so the first two 5 5 then, if I may. Mr Boulding, are you -audits that we had conducted by HKQAA were 6 re-certification audits for our entire business, so that 6 MR BOULDING: Yes. I've just got one question arising out 7 means that they looked at our corporate business and all 7 of Mr Cowley's evidence, if I might put it now. 8 Cross-examination by MR BOULDING 8 of our other projects, excluding 1112, they actually 9 ring-fenced 1112, and obviously they had a very watchful 9 Q. Mr Cowley, you've referred to passing an audit for 10 ISO 9001; correct? 10 eye on a lot of the issues that were coming to light out 11 of the Commission. So that was a re-certification 11 12 audit. We passed those audits. We had no similar 12 Q. Can I ask you this: did the ISO auditors look at the 13 issues on any of our other projects. 13 absence of RISC forms as part of their audit? 14 14 A. You mean the subsequent audit? Since implementing our new system, they've now gone 15 Q. Yes, the audit you've referred to. back and re-audited 1112, auditing the new system, and 15 16 re-certified us to ISO 9001 on 1112. 16 A. Absolutely. They are very mindful of a lot of the 17 So what we essentially had was an audit for our 17 issues that have come out of this Commission. Obviously 18 18 it's been well publicised. And they told us business in all of our other projects but no 19 specifically, when they came in to do the audit, that 19 certification for 1112. So we have now just 20 re-certified 1112. 20 they had a very watchful eye specifically on the 21 management of rebar, the management of couplers, all of 21 COMMISSIONER HANSFORD: Thank you. 22 22 A. Sorry, a long answer, I know. those issues, absolutely. 23 COMMISSIONER HANSFORD: That's helpful. 23 Q. So how, if you know, did they take into account the lack 24 24 MR BOULDING: Sir, can I just ask a question arising out of of RISC forms in that particular audit? How did they 25 take that into account; do you know? 25

Page 21 Why was the 1111 and 1112 projects ring-fenced? What was the purpose of doing that? A. I spoke to the director of HKQAA. My belief is they had no real reason, other than quoting the issues that had been mentioned in the press and the Commission of Inquiry. I think they were very nervous about having that project certified. They had no real reason for actually wanting to ring-fence the project. Q. But in the circumstances where obviously issues had arisen out of the project, wouldn't the obvious thing for Leightons to have done been to include that in the for Leightons to have done been to include that in the audit? A. They weren't prepare to audit us. They wanted to remove A. Commission. I guess they wanted to satisfy themselves that we didn't have existing issues on other projects. These endits was reachly we were repositively way ware reposition. These endits was certified. These endits was certified. COMMISSIONER HANSFORD: But prior to that A. Yes. COMMISSIONER HANSFORD: So there was a two-month of a during this year? A. Correct. As I said, what happened, they came in, they re-certified our business with the exception of 1112, because they were obviously very mindful of understanding the issues that were coming out of this Commission. I guess they wanted to satisfy themselves that we didn't have existing issues on other projects.
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actually wanting to ring-fence the project. 9 Q. But in the circumstances where obviously issues had 10 arisen out of the project, wouldn't the obvious thing 11 for Leightons to have done been to include that in the 12 audit? 13 A. They weren't prepare to audit us. They wanted to remove 14 112 from the scope of the audit. 15 Q. Did you object to that? Did you say, "Look, it's 8 period when it was not being certified, and that was 9 during this year? 10 A. Correct. As I said, what happened, they came in, they 11 re-certified our business with the exception of 1112, 12 because they were obviously very mindful of 13 understanding the issues that were coming out of this 14 Commission. I guess they wanted to satisfy themselves 15 that we didn't have existing issues on other projects.
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for Leightons to have done been to include that in the audit? 12 audit? 13 A. They weren't prepare to audit us. They wanted to remove 13 understanding the issues that were coming out of this 14 1112 from the scope of the audit. 15 Q. Did you object to that? Did you say, "Look, it's 15 that we didn't have existing issues on other projects.
12 audit? 13 A. They weren't prepare to audit us. They wanted to remove 14 1112 from the scope of the audit. 15 Q. Did you object to that? Did you say, "Look, it's 16 because they were obviously very mindful of 17 understanding the issues that were coming out of this 18 Commission. I guess they wanted to satisfy themselves 19 that we didn't have existing issues on other projects.
A. They weren't prepare to audit us. They wanted to remove 13 understanding the issues that were coming out of this 1112 from the scope of the audit. 14 Commission. I guess they wanted to satisfy themselves 15 Q. Did you object to that? Did you say, "Look, it's 15 that we didn't have existing issues on other projects.
14 1112 from the scope of the audit. 15 Q. Did you object to that? Did you say, "Look, it's 16 Commission. I guess they wanted to satisfy themselves that we didn't have existing issues on other projects.
15 Q. Did you object to that? Did you say, "Look, it's 15 that we didn't have existing issues on other projects.
16 important that you do this"? 16 Those audits went smoothly, we were re certified. We
17 A. Of course we did, and they were insistent. That's why 17 were left for about a two-month period with no
they came back and did a re-certification audit of our 18 certificate on 1112. We contacted them recently, we
entire business, with the exception of 1112. 19 said, "Will you come back and audit us?", they agreed to
So we've been on a long journey with HKQAA. It's come back and audit us; we passed that audit. In fact
only recently that we've gone back and spoken to them 21 that audit happened two weeks ago.
and said, "We've made system improvements, we've made 22 COMMISSIONER HANSFORD: Thank you.
changes; will you come back and re-audit us?", and they 23 CHAIRMAN: Mr Khaw?
24 agreed to come back and re-audit, which they've just 24 MR KHAW: No questions from the government.
25 done. 25 CHAIRMAN: Mr Clayton?
Page 22 Pag
1 MR BOULDING: All right. 1 MR CLAYTON: No questions.
2 CHAIRMAN: So it would be correct to say, then, that at the 2 MR CHANG: No re-examination.
3 time, when everything was contemporary in the sense that 3 CHAIRMAN: No re-examination.
4 the Commission of Inquiry was ongoing, there were 4 Mr Cowley, thank you very much. Apologies again for
5 matters related to 1111 and 1112, the quality 5 messing you around on the last occasion.
6 association said, "Look, this is subject to the 6 WITNESS: That's all right.
7 Commission's Inquiry at the moment, it's an ongoing 7 CHAIRMAN: Thank you very much for your attendance today
8 issue of investigation, we don't want to be involved at 8 WITNESS: Thank you.
9 the moment, and then come out, for example, with a pass 9 (The witness was released)
mark which may in fact contradict with what the 10 MR BOULDING: Good morning again, Chairman. Good morning again, Chairman.
Commission comes out with", et cetera, et cetera. But 11 again, Prof Hansford.
since then, they have been able to well, they have 12 It now requires me to call my expert witness,
agreed to come along and they have in fact given you 13 Mr Huyghe, who you've heard from before. If he would
14 a pass or a certification? 14 like to take the stand, that's what I propose to do.
15 A. Correct. 15 CHAIRMAN: Thank you.
16 MR BOULDING: But anyway, that pass, as I think you've made 16 MR BOULDING: Thank you.
17 clear, excludes any consideration of 1111 and 1112? 17 Good morning, Mr Huyghe.
18 A. No, no, no. The recent pass is just solely for 1112, 18 Would you like him to take his oath or affirmation
19 our project. 19 again, or do you regard him as still being on his oath
20 MR BOULDING: Okay. 20 from last time?
21 COMMISSIONER HANSFORD: Just to close that off so that I can 21 CHAIRMAN: Sorry, I was just reading something there.
22 understand it: for what period of time was 1112 not 22 MR BOULDING: I just wondered whether
for what period of time did it not have a valid audit 23 CHAIRMAN: I think it's sufficient to remind Mr Huyghe.
from your auditors? 24 He's an expert witness. I'm sure he has a long memory.

Page 25 Page 27 CHAIRMAN: You are reminded, Mr Huyghe, that you took 1 A. Yes. 1 2 an affirmation or an oath and you are still bound by 2 Q. I wonder if we can just look at that. It's pretty hot 3 3 off the press. Bundle ER9, page 1. Is that the first that in returning to give evidence on the same subject 4 4 page? 5 5 WITNESS: Yes. I fully understand. A. Yes, it is. 6 CHAIRMAN: Thank you. 6 Q. It's still marked "Without prejudice" but do 7 7 MR STEVEN ALBERT HUYGHE (on former oath) I understand that that's been agreed by all three of 8 8 Examination-in-chief by MR BOULDING you? 9 9 A. Yes. MR BOULDING: Thank you very much, Mr Huyghe. 10 It's correct, is it not, that you produced two 10 Q. If we go on to page 10, we there see your signature, not 11 reports for the assistance of the learned Commissioners 11 signed by the other experts yet. Do you know why that 12 in this Inquiry? 12 13 A. Yes. 13 A. I think it's basically just because of travel plans. 14 Q. I wonder if we can just go to those. If you could go to 14 I think that Mr Rowsell was in the process of travelling 15 ER6, page 1, do we there see the first page of your 15 back from his vacation and Mr Wall was leaving on the 16 report dated 21 September 2019? 16 evening that we tried to finish this up, and so that's 17 A. Yes. 17 the only reasoning that I have. 18 Q. If we go on to page 39, I hope we see your signature 18 Q. Right. But anyway, so far as you are concerned, that 19 above that date, 21 September 2019; correct? 19 represents an agreement between all three of you? 20 20 A. Yes. A. Yes. 21 21 Q. I know matters have moved on in the joint statement Q. Thank you. 22 22 which I'm coming to in a few moments' time, but insofar Now, with the Commissioners' leave, I understand 23 as that report sets out factual matters, are they 23 that you have a short presentation to make to us before 24 factual matters that you believe to be true? 24 you are questioned on your evidence. Is that correct, 25 25 A. Yes. Mr Huyghe? Page 26 Page 28 1 Q. And insofar as the report sets out opinions, are they A. That is correct. 2 2 opinions which you honestly hold? MR BOULDING: With your leave, sirs, he will now make that 3 3 presentation. A. Yes. 4 Q. Now your supplemental report, please, Mr Huyghe. Could 4 CHAIRMAN: Thank you. 5 5 we go to bundle ER6.3 at page 1. There -- yes, I can MR BOULDING: Thank you, Mr Huyghe. You will be questioned 6 in due course. I think you know the way these 6 see it on the screen -- a supplemental report dated 7 7 30 September 2019; correct? procedures work now. 8 8 Oral synopsis by MR HUYGHE A. Correct. 9 9 WITNESS: Yes. Q. Then if we go on, please, to page 12, there we see, do 10 we not, your signature above the date of 30 September 10 What I'd like to do, what I've tried to do, is to 11 first start by just identifying the topics I will be 11 12 going over this morning. I believe counsel will find 12 A. Yes. 13 13 these are some of the three topics that are at the Q. Again, insofar as that report sets out facts, are they 14 facts which you honestly believe to be true? 14 centre of this matter. The first three bullet points 15 15 pertain to that. The last bullet point is something A. Yes. 16 I believe that the counsel and everyone will be somewhat 16 Q. And insofar as it sets out opinions, are they opinions 17 interested in. I had received some information from 17 you honestly hold? 18 18 A. Yes, they are. MTRCL regarding to their latest update on the projects 19 Q. Is that the evidence you would like to put before the 19 and the project management systems that they have been 20 20 working on and putting in place, and I thought it might Commission of Inquiry today? 21 A. Yes. 21 be interesting to show what is going on and to identify 22 22 the progress. I think that may be important to hear at Q. As I mentioned, it is right, is it not, that you and 23 23 your fellow experts, Mr Steve Rowsell and Mr George the end of my discussion here this morning. 24 24 I'm going to start with the lack of RISC forms which Wall, have managed to produce a joint statement of the 25 project management experts? 25 I know is one of the key issues on this matter. I start

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Page 29 with -- and I just put this up for foundational purposes -- that obviously there's various phrases and clauses and paragraphs in the contract that talk about the contract's requirement to provide the RISC forms. I will only identify two of them, just to set the stage, as obviously when I start any evaluation, I want to go into the contract documents and understand the issues, what's in the contracts and what's in the PIMS and the PMP. So I just set a couple of phrases out to lay that foundation, as I clearly understand, and I don't believe there's any dispute regarding to the contractual requirements, that there are brief spells before MTR and

Leightons were providing for the RISC form process.

One thing I would like to discuss is my perception, the purpose for RISC forms. All major civil engineering 15 projects require that inspection records, joint inspection records, are kept, on large civil projects. There's a reason for that and I'm going to go into some of that detail as I go through my presentation. I just want to point that out. And the reason for this is that they really centre around trying to prevent, mitigate defective work, quality, and safety. I'm going to give an example a little later on why they are important and I'm going to specifically talk about safety. So I just wanted to bring that up at this point.

contractual requirements.

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I also thought it might be helpful to compare that to what actually occurred, and again it's graphically depicted. Basically, at step 2 of the yellow box, Leighton didn't sign any RISC forms. They basically informed MTRCL that they are ready for an inspection, oftentimes by phone and WhatsApp. They then proceeded to the field and they actually performed the joint inspection, and one thing on this graphic that I would like to point out at the end, they didn't sign off; they just performed the joint inspection.

So all of the boxes or arrows that have been deadened out by the grey were steps that were not taken in the process, and I thought that might just be helpful to point that out.

So then I thought, to kind of summarise, I've just taken the statements and generalised the ones in my reports regarding to the RISC forms. Leighton did not provide all the RISC forms. MTRCL continually requested the submission but to no avail. MTRCL did not waive the RISC form procedure. And then I pointed out one condition in the contract that I think may be interesting to point out in the Conditions of Contract clause 2.9:

"No act or omission on the part of the Engineer

Page 30

Page 32

Obviously this helps to eliminate the rework of concrete placement, the cost of correcting defective work, and to help, obviously, move the project forward.

So that's my interpretation and my experience as a contractor for over two decades, and I've been evaluating projects now for many years, as to what the purpose of the RISC forms is.

I thought it may be helpful to graphically depict the actual process that the RISC forms were supposed to take at the outset of the project. So I've prepared a graphic that hopefully will help explain and bring some clarity to it. The issues in yellow are the Leighton steps that needed to be taken regarding to the preparation of the RISC forms and the execution of the RISC forms. I'm not going to -- you can read them, they are on the screen, but it's really a flow of information regarding to RISC forms and the registering of the RISC forms and then passing to MTRCL, which is now shown in red. So the baton, if you will, gets passed to MTR, and then they go through the process of registering the RISC forms, distributing the RISC forms, and get them to where obviously they can be sent to the field for the inspectors to review, do the joint inspections and sign off.

So that's basically, if you will, the plan of the

shall in any way relieve the Contractor from any liability, responsibility, obligations, or duty under the Contract."

I'm going to refer to that again in a little bit but I thought that was important to point that out.

At this juncture, I thought maybe I would just add this yellow note, and I'm going to be explaining a little bit further in my analyses why I believe this. I don't accept the concept that Leighton staff were too busy. Leightons knew the RISC form procedure before they signed the contract. I'm aware from my investigation of the Original Inquiry that for the EWL slab they did provide the RISC forms. There was no issue there on other parts of the project. I believe, as a general contractor myself, that they should have made it a priority and they should have put the resources to make sure that that condition of the contract was fulfilled, and I do not accept the fact that because "MTRCL didn't make me do it", that that releases them from their responsibility as a general contractor. I just don't believe that, and I'll show you why in a second. CHAIRMAN: Could I put it this way perhaps, that it may be

said that it wasn't so much a question that Leighton was

asked or that the MTRC did not demand or that there was

	Page 33		Page 35
1	a request to be excused; it was more a convenience,	1	essentially a contemporary form and is not merely a
2	clearly a mutual convenience, that slowly became	2	record, so it's not merely a case of form-filling three
3	a practice. In other words, that Leighton said, by	3	months later, it's a case of it being a request,
4	telephone or by WhatsApp, "Can you come and do	4	a contemporary request that then contains information
5	an inspection? We'll give you the documentation later,	5	related to an actual investigation and inspection?
6	the RISC form", and MTRCL said, "Okay. Maybe on this	6	A. That's correct, and I'm also going to address that in
7	occasion we'll do it", and that kind of mutually	7	just a second.
8	convenient short-cut slowly but surely cemented itself	8	CHAIRMAN: Thank you. When I was hearing the evidence
9	into a situation where people, to a very large extent,	9	this is not to say I have sympathy for the failure
10	initially tried to catch up on their RISC forms, over	10	necessarily at all but there was a battle in the Zulu
11	long weekends or whatever no, they didn't, not over	11	wars, the Battle of Isandlwana, and one of the reasons
12	long weekends; they just tried to catch up, and then	12	later, it was found, for the defeat of the British by
13	eventually didn't even bother to do that.	13	the Zulu impis was the fact that the quartermaster's
14	So there was a kind of the two sides both agreeing	14	staff were demanding that as the platoons came
15		15	forward to get more ammunition to prevent themselves
	it was mutually convenient?	16	
16	A. I understand what you are saying, and I can see your		being overrun and killed, the quartermaster's staff was
17	thoughts. Let me	17	demanding that the forms be filled out in triplicate,
18	CHAIRMAN: I'm not suggesting that's right. I'm just	18	and people were filling out the forms and getting
19	saying	19	speared in the back as they did so. That perhaps was
20	A. Let me just offer an opinion on that.	20	bureaucracy gone mad, and I'm not suggesting that should
21	CHAIRMAN: Yes.	21	be done
22	A. I believe, from what I reviewed, that MTRCL believed	22	A. That's a good
23	that Leighton was going to catch up and prepare the RISC	23	CHAIRMAN: There's always that issue, is there not
24	forms, and I think that, like you say, because of that	24	A. Yes.
25	belief, they continued on, and because both sides wanted	25	CHAIRMAN: of trying to get a comfortable middle ground,
	Page 34		Page 36
1	to get this project done, both sides wanted to move this	1	which perhaps digitalisation now provides, without the
1 2	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of	1 2	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to
	to get this project done, both sides wanted to move this		which perhaps digitalisation now provides, without the
2	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of	2	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to
2 3	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of what you've mentioned was that I think MTRCL believed	2 3	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to press a couple of buttons and it's all happening.
2 3 4	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of what you've mentioned was that I think MTRCL believed that Leighton was going to catch up, and that's why they	2 3 4	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to press a couple of buttons and it's all happening. A. And that is what's going on. The fact that's when I
2 3 4 5	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of what you've mentioned was that I think MTRCL believed that Leighton was going to catch up, and that's why they continued to do what they did. And I'll be getting into	2 3 4 5	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to press a couple of buttons and it's all happening. A. And that is what's going on. The fact that's when I get to the end of this presentation I'll show you some
2 3 4 5 6	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of what you've mentioned was that I think MTRCL believed that Leighton was going to catch up, and that's why they continued to do what they did. And I'll be getting into this a little further on in my	2 3 4 5 6	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to press a couple of buttons and it's all happening. A. And that is what's going on. The fact that's when I get to the end of this presentation I'll show you some of the things that are actually being employed right now
2 3 4 5 6 7	to get this project done, both sides wanted to move this project forward, so I think that generally the caveat of what you've mentioned was that I think MTRCL believed that Leighton was going to catch up, and that's why they continued to do what they did. And I'll be getting into this a little further on in my COMMISSIONER HANSFORD: Is there another point, Mr Huyghe	2 3 4 5 6 7	which perhaps digitalisation now provides, without the effort, if you can put it that way, you just have to press a couple of buttons and it's all happening. A. And that is what's going on. The fact that's when I get to the end of this presentation I'll show you some of the things that are actually being employed right now that help do that.
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Page 39 Page 37 reports that basically talk about the issues, and you 1 1 there were joint inspections. There were none. So, to 2 can read those. Those are the ones I basically --2 find out what happened, they decided they would go in, 3 COMMISSIONER HANSFORD: Can I just pick up on the fourth 3 like on this project, drill in and uncover the problem. 4 4 So they sent a labour down there to do it; he took 5 "Leighton's QEM did not ensure ..." 5 a jackhammer, he was going in to see -- he didn't know, 6 Can you just elaborate on that? 6 they just told him to expose that area. Within that 7 A. Yes. The QEM process has a -- they're supposed to take 7 concrete was an electrical line that wasn't placed in 8 the RISC forms and put them into their system, register 8 conduit correctly, and he unfortunately hit it and it 9 into their own quality control process. 9 killed him. 10 COMMISSIONER HANSFORD: Right. 10 Now, that contractor didn't have any joint 11 A. And obviously if you don't have the RISC form you can't 11 inspection. Now, contractors are not -- their coverage, 12 put it into the system. 12 their liability coverage, doesn't include negligence. 13 COMMISSIONER HANSFORD: Right. I understand. 13 So one of the things that I was really particularly 14 A. Now, here's where I would like to spend just a moment, 14 interested in, and everything I've read here doesn't 15 and again I'm going to put on my contractor's hat for 15 mention that, about the contractor's need to make sure 16 a moment: 16 all inspections on a project that they are required to 17 "From a contractor's perspective, the joint 17 have in place need be completed. 18 inspection documentation for rebar/concrete placement is 18 Now, I have done it myself, my staff never kept 19 'as important' as the physical work performed on site." 19 those records up to date every day, but basically I gave 20 Now, what do I mean by that? Throughout the course 20 them a week, and this is what I referred to earlier 21 of construction you as contractor have your 21 about I don't accept the fact that people are too busy. 22 22 superintendents and your foremen, and everybody out Everybody in this room puts together the priorities of 23 there in the field trying to put the work in obviously 23 what they are going to do each day, or I do, most people 24 as specified, follow every requirement, not just for 24 do, and everybody in this room puts in that list things 25 rebar but for any electrical conduit, for any mechanical 25 that they like to do at the top of that list, and at the Page 38 Page 40 installations, any sleeves, blackouts; things of that bottom of that list are the things that they just don't 1 1 2 nature have to be checked, and are checked by the people 2 really care to do. And engineers don't care to do 3 3 that are putting the work in, and you've got people on record-keeping. They like to be on the site. They like 4 your staff as a contractor to check it. 4 to be doing more exciting things. They don't like to do 5 But on large civil projects, you also want to have 5 record-keeping. And on my staff, my engineers would 6 your joint inspection performed, for two reasons. One, start putting this off, and they will. It's just 6 7 7 it gives you another set of eyes to look at that. inherent that engineers don't like to do that. But when 8 8 Nobody is perfect on a construction site and some people they would put that at the bottom of the list, I would 9 may miss something, so to have the owner's set of eyes 9 inform them two things. One is, "Move that to the top 10 10 look at things, you want to make sure that you've of your list, because the last time I looked I signed 11 provided your work in the most practical way and 11 your cheque, and I want you to make this a priority, 12 followed all the specified requirements, so you need the 12 because I need the protection", not only because, from 13 owner to look at that. And secondly, you need 13 a contractor's perspective, you need to know your work 14 a document in your hand that says that that inspection 14 is installed; you will be asked to come back in the 15 has taken place, for liability purposes. 15 future, if there's any defective work, you will be asked 16 Let me give you a quick example as to why that is. 16 to come back, because there's going to be an allegation 17 I'm aware of a project that was completed, a large civil 17 of cracked concrete. All kinds of things that makes 18 project, just like this one to a degree, where they 18 a contractor not sleep at night because they don't have 19 poured concrete. When they stripped the form, they saw 19 the proper form that backs it up. 20 20 rebar at the surface of the concrete edge, and Now, that's the contractor's perspective. The 21 honeycombing, which is the voids in the concrete. The 21 owner's perspective is he just wants to follow contract 22 22 first thing they did was when they saw that and they saw requirements and get them to sign the things, produce 23 the honeycombing, they thought, "Is there anything 23 them. It has nothing to do with what the contractor 24 underlying this problem within the concrete?" So they 24 should be thinking about, and I don't see that in the 25 went to look for -- they weren't called RISC forms but 25 things I've read. I don't see that the contractor

Page 41 Page 43 1 should be thinking that they need to get these things 1 Then I tried to zero in and look at the defective 2 done. Now, they could be done later, but you need to 2 work. These are the photos that were included in NCR095 3 have an evidence that both people looked at it. 3 to see about the couplers and the issues with the rebar 4 That's why I do disagree adamantly with the fact 4 couplings and issues of that nature. 5 5 that because Leightons kept saying they were going to So, again, try to step back and summarise the joint 6 have it done, Leightons kept saying they were going 6 inspections without RISC form procedures. And there are 7 7 to -- so MTR cooperates, and now I hear that there is four candidates that I've read and seen in the witness 8 an allegation, "Because MTR let us do it, they didn't 8 statements. One is the Lenton couplers issue with the 9 care about it either." I don't buy that. 9 tapered rebar. Couplers not exposed, they didn't have 10 CHAIRMAN: Can I ask this. The RISC form documents, to the 10 them exposed, so they couldn't -- and the missing 11 best of my memory -- and I'm open to correction --11 couplers, and incorrect coupler layout. 12 contain provision for detail --12 Now, another contractor phrase I'll throw in here is 13 13 I created -- I heard this throughout my career and 14 CHAIRMAN: -- as opposed to merely an inspection of site 14 I called it the NMF rule, "not my fault". Everybody 15 A/B/C, all okay or all not okay, so that if there's not 15 would come to me with things that happened in the field 16 done contemporaneously, there's always room for doubt, 16 and they had to turn to my direction because that was 17 is there not, if it's filled in three weeks later, that 17 not my fault, they are dealing with things that aren't 18 something that was raised at the time is now covered 18 my fault, so I'm going to go through this process, in 19 over either by forgetfulness or on purpose at a later 19 that thinking. Keep that in mind as I go through the 20 stage? 20 Lenton couplers and the tapered rebar issue. Not my 21 21 A. That's exactly correct. That's exactly correct. That's 22 22 the issue. You want to make sure that you have There's this example of a standard horizontal 23 a document -- now, like I say, I would let it slide 23 diameter connection -- I just thought I'd throw some 24 24 for -- my engineers were told to put anything down in examples -- people say it's a simple process, it 25 their site records, their diaries and then to make 25 shouldn't need much education to do it, and there's just Page 42 Page 44 sure -- all joint inspections will be brought up to date 1 an example of just a tapered joint. But when you talk 1 2 2 within a week. If there was ever a situation where they about education, these are -- all of these couplers I've 3 3 used on projects, there's all kinds of Lenton couplers, in that week had a moment where they may be forgetful, 4 that they go to the foremen in the field who were there 4 and just not Lenton, Lenton is only one manufacturer, 5 5 before they poured the concrete and ask them. all kinds of couplers can be used in our industry and 6 CHAIRMAN: Okay. Good. Thank you. 6 they have advanced over the years. 7 A. "Ineffective site inspections". I'm just throwing up 7 So I just wanted to point out that, but I want to go 8 8 back and I want to, on the left-hand corner, at that these drawings; I know you've seen them. I had to kind 9 9 tapered -- because when you've run into a situation of educate myself because people were talking about 10 joint 1, joint 2, joint 3, about the stitch joints and 10 where you have a Lenton coupler without tapered bars, 11 I just wanted to make sure I knew exactly the locations. 11 you've got standard horizontal bars, what do you do? 12 I did a study of more drawings than this but I looked at 12 That is a portable taper machine that's used on large 13 13 the section cuts to make sure I could understand the civil projects. You bring them on the project, as 14 14 I have done -construction process. I looked at the photos that were 15 15 CHAIRMAN: Sorry, this is what looks to be like a toy car in available for each of those. The top three on the top 16 16 of the screen were all joint 1. Obviously between the middle? 17 17 contract 1111/1112. I wanted to look at the thickness A. Exactly. In fact, that's an older one. There's even 18 18 new ones now that are smaller. of the rebar, the placement and thickness of the stitch 19 joint, and then the same thing for the stitch joints in 19 COMMISSIONER HANSFORD: This is a big piece of kit, isn't 20 20 joint 1 and joint 2 down below, and then joint 3 which 21 21 A. It can be -- it's about 7 or 8 feet by 6 feet, but they is obviously an open cut, it has no roof, if you like. 22 22 are smaller now. But you bring them, you haul them in, I just wanted to get an understanding of the work in 23 23 haul them in on a pickup trunk, bring them to the site. place. 24 24 If you've got tapered bars that you need to make, you These aren't pictures I took; these are pictures 25 obviously that were provided to me. 25 get them out, set up a jig on one side, you put them in

Page 45 Page 47 1 1 and you do it. this and they didn't report it to their foreman, they 2 This isn't like, "Okay, let's stop and send them off 2 are out of work. They are fired. 3 3 to some place in China to get them made." This is you So this is not something that -- this happens. This 4 can do it on the spot, on the site, it's done every day, 4 in realtime happens, they report it, because -- and then 5 5 the foreman reports it for the same reason: he doesn't standard 6 CHAIRMAN: This is common? 6 want to have an inspector come and find out -- because 7 7 A. Common. he's going to have to go back in to do it all over 8 8 CHAIRMAN: And when I say common, it's -again. So for cost-wise, he's not going to do it. So 9 9 A. It's common on projects that have a lot of tapered they are going to go to the general contractor and say, 10 10 rebar. "What do you want to do?", and all of these resolutions 11 So resolution: you determine the number of bars you 11 that I'm going through are things that have to be done 12 need, you prepare the proper tapered thread. A number 12 to make sure that the work is installed in accordance 13 10 bar takes about 15 minutes. Depending on how many 13 with the specifications. 14 you've got, it depends on how many -- but you do not try 14 Missing couplers/coupler layout. You come in, you 15 to screw in the parallel bar and leave it unconnected. 15 get a labourer who's got to drill a hole, core a hole, 16 That's what you don't do. And you do not pour the 16 relocate that coupler, you've got to hot grout it, which 17 concrete unless it's fixed. 17 is not an easy thing to do, you've got to have grout 18 18 that will stand up to the strength of time and relocate Couplers exposed. Resolution: labourers to chip and 19 19 locate. Care has to be given because when they go down it. It takes time for that to set -- to form, and then 20 into that area and they chip that concrete out, you 20 install your rebar, but you don't pour the concrete. 21 21 can't let it fall down to the bottom of the pour, COMMISSIONER HANSFORD: We talked about epoxy --22 22 because you will get your pour rejected because you got A. That's what this is. Hot grout is epoxy. There's all 23 it contaminated; you've got to make sure you get it out 23 kinds of ways you can do it. 24 of there. Then you install your rebar and then you pour 24 COMMISSIONER HANSFORD: Thank you. 25 25 the concrete. A. So, to summarise, what I think happened on this project Page 46 Page 48 COMMISSIONER HANSFORD: You see, Mr Huyghe, you had an NMF 1 1 regarding to the stitch joints -- and the first thing is 2 rule, "not my fault". There's also the NMJ rule, "not 2 common sense. The contractor is pushing to get the 3 my job", and I think that applies to this slide. 3 concrete pour. The rebar fixer foreman is pushing the 4 A. I'm glad you voiced that out, because all these issues 4 works to get done. He's pushing his guys in the field. 5 5 on a constructing site, when the rebar fixers came up The rebar fixer has got to come out of that hole and 6 with those problems, they walked up out of that hole and 6 contact his foreman about "not my fault" and he's going they went to somebody with Leightons and said, "Here" --7 to contact the general contractor. Then that's up to 8 or they want to their foreman and said, "Come see what 8 the contractor to take the corrective actions to correct 9 we're dealing with". That's what would be common for 9 the issues. 10 10 No inspections were conducted, and the concrete was 11 COMMISSIONER HANSFORD: If they did --11 poured with the defective work in place, not corrected. A. Not my fault. If they can't perform my work, so they 12 12 Now, another thing I'd like to add is no one --13 are going to say, "Not my fault?" What do you want me 13 COMMISSIONER HANSFORD: Sorry to interrupt you. Because 14 to do with all these issues?" 14 we've also heard that inspections may have been 15 COMMISSIONER HANSFORD: But there's another possibility --15 conducted. 16 I'm not saying this happened -- there's another 16 A. I heard that too but it's kind of like you went in and 17 possibility where they didn't report that and they just 17 looked and there was all kinds of defective work, and 18 18 bodged it. I don't buy the fact that you couldn't have seen it. 19 A. I don't believe that. Everybody on a construction site, 19 COMMISSIONER HANSFORD: Okay. 20 in my opinion, wants to do a good job. I believe that. 20 A. Because when you're inspecting work, everybody says, 21 I have to believe it because I've been in construction 21 "I didn't even mention it in mine", so sometimes you 22 for 50 years. 22 can't see -- but if you're inspecting work properly you 23 COMMISSIONER HANSFORD: I agree with you. 23 don't wait until all the rebar is in. You go in while 24 A. They do report it. They just do not walk away and 24 the rebar is being put in. 25 say -- because if an inspector comes along and catches COMMISSIONER HANSFORD: Yes.

Page 49 1 A. So it doesn't become an issue where you can't see 2 through it. Sometimes it's difficult, and I say it in 3 my report, I acknowledge that, but usually, if you 4 really want to go in and look, you can see it. 5 COMMISSIONER HANSFORD: Okay. 6 A. The other thing I'd like to point is: I see nobody so 7 8 9

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to pour the concrete.

far has talked about the concrete order process, because my experience here in Hong Kong, and I know it's the case here, if your concrete supplier is about an hour to an hour and a half away from the site, concrete -- when you add water to concrete, it sets up in about an hour and a half to two hours, in that concrete truck. So, if you're going to schedule a concrete pour, and you've got this, say, scheduled for 3 o'clock, and let's just say, hypothetically, all these problems were going on on the project and you scheduled for concrete for 3 o'clock because you thought it was going to be done by then, and you called that concrete truck, and all that stuff is going on, and that concrete truck shows up, not just one, ones behind him, and you have an hour and a half to two hours or you dump that concrete. Decisions are made: dump it.

The concrete crew doesn't care if there's a dead body in the bottom of that rebar; they're going to pour concrete. So they're going to pour the concrete. Once

you say, "Gentlemen, pour the concrete", they're going

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This basically identifies, in the spec, you've got couplers to look at, you've got a method statement to prepare if there's an issue with these couplers.

So my comments below: I think the PIMS does provide good procedures to minimise interface risks. However, these interface meetings took on -- were on for two years, from my understanding. I think when I've read -and I understand that Leighton stated that the lack of communication regarding Lenton/BOSA coupler issue, they then did not tell their frontline inspection staff about this issue that was being discussed in interface meetings. Leighton was responsible for the coordination, preparation and execution of the work/inspection. And MTRCL was in liaison with the parties. Then I did see, by looking at some of the qualifications of the staff on both sides, that they didn't have the proper training regarding couplers.

So there again is my kind of a summary out of my report regarding to the interface management. Leighton interface meetings did not resolve the different coupler issue. No method statement was provided. Their frontline staff was unaware. Leighton's staff was not familiar with the QSP requirements for inspecting couplers. They didn't keep the proper record-keeping under the QSP. Inspections appear to have not been

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A lot of decisions are made about defective work or not. When the concrete truck is there, people say, "Okay, tomorrow I've got to do this pour, pour the concrete" -- I haven't seen that element considered here, about what it takes to schedule the concrete, the time it takes, and the schedule -- I hear everybody is saying they're trying to push the job forward. But when you're pushing a job forward, you just don't get an inspection done at 2 o'clock in the afternoon and wait for the concrete to come tomorrow morning.

Interface management and planning. I've listed a table that I found interesting, it's in the Particular Specification, table Z2.1.2, exchange of design information, and this really lays out to me in a very good manner what needs to be done between the 1111 contractor, the 1112 contractor and the purpose of the interface. And if you read the language under the 1111 contractor, it specifically talks about the couplers. Then, if you look at the 1112, it says:

22 "To review and take into account of the information 23 provided by 1111 contractor in his construction sequence 24 and method statement for contract 1112." 25

Then, on the right, you review and confirm.

conducted. And defective work was covered up by the placement of concrete.

Now, on a lighter note, let's talk about, if I can, the improvements that are being done by MTRCL, from what I understand. I've just listed them. I was updated -this is to the end of September. The iComm and the iSuper process has now been established within the SCL construction contracts. They are used on a daily basis to enhance the digital management of quality matters, which you referred to earlier, about the use of electronic systems for the RISC forms. The other one is of particular interest to me because I made a mention in my report that they now have a quality manager and have a second line of defence, they have people in the field and people in the office dealing with quality, which I think is excellent. The engineer division quality assurance team is up to ten staff members. They are talking about work flows for their second line of defence, and they are pulling together guidelines for staff competence which I think is a very good thing, and they are starting to perform verification and assurance duties across all SCL projects.

BIM is being introduced for future projects. They've got three new consultants who have been awarded -- because it takes, basically, some specialist

	Page 53		Page 55
1	to prepare the BIM process. And they have one design	1	factual conclusions based on his own interpretation of
2	contract out for adopting NEC form of contract that's	2	the facts and the relevant contractual documents.
3	been tendered at this time.	3	Again, given the time limit we had over the morning
4	This is a summary by me of what I have read and	4	break, I can only read out from the printed transcript
5	understood in my discussions, and I think those are all	5	covering Mr Huyghe's oral synopsis. Some examples would
6	very proactive and helpful.	6	be, for example, when Mr Huyghe remarked, "MTR
7	And a lot of these things that Mr Rowsell and I talk	7	continually requested the submission [of RISC forms] but
8	about in our reports about things that we suggested to	8	to no avail'; "MTR did not waive the RISC form
9	be done, we find they're now being incorporated, so	9	procedure" again, these are factual matters and
10	I think that's also a positive note.	10	possibly legal arguments which we believe Mr Huyghe is
11	That's it.	11	not entitled to make.
12	MR BOULDING: Thank you, Mr Huyghe. The procedure, as you		The Commission will also recall Mr Huyghe saying,
13	know, is that you'll be asked questions. I understand	13	"MTR believed that Leighton was going to catch up and
14	Mr Pennicott's got some questions. Then I'm not quite	14	prepare the RISC forms, and I think that, like you say,
15	certain of the batting order after that but it may well	15	because of that belief, they continued on, because both
16	be that some of my learned friends have some questions	16	sides wanted to get the job done, both sides wanted to
17	as well. I might have some questions at the end. And	17	move [on]", et cetera.
18	of course the learned Commissioners can ask you	18	Again, what MTR believed is really not for Mr Huyghe
19	questions at any time they like.	19	to say.
20	But it may well be that we will be directed to take	20	He also referred to his own experience or purported
21	a coffee break now; I don't know.	21	experience. He made the point about him being a general
22	CHAIRMAN: Yes, we will take a coffee break now.	22	contractor for over two decades; these are things which
23	20 minutes?	23	he did not buy or did not expect to see. He also
24	MR PENNICOTT: Yes.	24	referred to an unidentified project where there were
25	CHAIRMAN: Thank you very much.	25	problems, honeycombing, et cetera, and the lack of joint
	CIP III (17)	23	problems, none yeomonig, et eetera, and the lack of joint
1	Page 54	1	Page 56
1	(11.24 am)	1	inspection forms created some problems with that
2	(11.24 am) (A short adjournment)	2	inspection forms created some problems with that particular project.
2 3	(11.24 am) (A short adjournment) (11.48 am)	2 3	inspection forms created some problems with that particular project. Finally, there's this part, when Mr Huyghe referred
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Page 59 Page 57 1 1 in his evidence, likes to give narrative evidence. It evidence from a person who has very long experience in 2 can sometimes be very effective. I mean, for example, 2 project management and who expresses himself in clear 3 3 talking about the one contract where, because there had and direct terms, and sometimes does so by way of 4 not been joint inspection, somebody sent down to open up 4 examples -- I'm a bit over-fond of examples myself --5 the concrete was killed when accidentally his working 5 and it's a question always of saying, well, he's giving 6 tool hit an electric conduit -- I didn't take that as 6 his opinion as to the importance of certain procedures. 7 7 blaming anyone in particular. I took that as being If he's going to say somebody fell down on that or 8 8 an illustration of how important records are. And didn't fall down on that, that's not his area, and we 9 9 I think that was entirely permissible because it is very won't take that into account in any way whatsoever. 10 10 easy to think, "Well, what counts is getting the work MR PENNICOTT: Yes, sir. 11 done and not necessarily filling in the records", and 11 CHAIRMAN: Does anybody else wish to say anything? 12 what Mr Huyghe was doing there was saying, "Look, 12 MR BOULDING: Sir, I will obviously reserve my position, 13 records really are critical. This will give you 13 unless and until my learned friends jump up and object, 14 an indication of what happens when you don't have proper 14 but I did just want to make the observation that, in 15 records, along with other indices." 15 a sense, you have made: there's some sort of complaint 16 But I do take your point, and thank you very much 16 that he relies upon his long construction experience, 17 indeed, that there are areas where it may be said that 17 50 years I think he said. It seems to me that that 18 18 makes him eminently well qualified to be an expert and he's acting outside of his proper parameters as 19 19 an expert witness. I can assure you we're aware of to give opinion on project management-type issues. 20 that, and those are matters that will be taken into 20 That's what I'd say there. 21 21 As to matters such as whether or not MTR waived the 22 22 It becomes difficult, though, in matters of this RISC form procedure and whether or not there was 23 23 evidence of that -- you will recall that over the period kind, to be stopping an expert witness at the beginning 24 of every part of his evidence, when you know full well 24 2014 to 2017 there was evidence that MTR personnel 25 25 that what's happening is there's an attempt to try and repeatedly -- repeatedly -- contacted Leighton at even Page 58 Page 60 1 give evidence that's going to be of benefit to the 1 the highest level and said, "Look, where are these 2 2 Commission. But I'm sure Mr Huyghe will bear in mind forms?", and they were constantly promised but 3 what has been said and we will bear that in mind. Thank 3 unfortunately they never turned up. 4 4 So there we are. I don't intend to say anything 5 Mr Pennicott, is there anything you wish to say? 5 more at this stage, sir, and I will leave it to your 6 MR PENNICOTT: No, sir, there's nothing I wish to add. 6 good judgment. 7 I hope, during the course of my questions, to try and 7 CHAIRMAN: Yes. Thank you. Obviously we will try to avoid 8 steer a course that doesn't involve getting into 8 sliding across the ice as we have been and try and 9 9 restrict ourselves, but I do wish to assure everybody detailed factual matters which are plainly for the 10 Commission to ultimately decide. 10 that I was well aware from the outset that there were 11 CHAIRMAN: Yes. 11 certain areas which on a close observation and perhaps 12 MR PENNICOTT: Another example, I suppose -- I can't 12 in civil litigation on matters of contractual liability 13 13 remember whether Mr Chairman mentioned it, but the whole and the like, there would have been a tighter rein 14 question of whether or not the engineers were too busy 14 pulled. But here we are a Commission of Inquiry, we are 15 to fill in the RISC forms -- I mean, we've heard what 15 trying to look generally at the issues, and certainly 16 Mr Huyghe has said about that. It's his opinion that 16 neither Prof Hansford nor myself are taking into account 17 17 filling in the RISC forms should be prioritised. That anything that Mr Huyghe may say as attempting to take 18 seems to me to be a matter of opinion. But ultimately 18 over our function which is one of fact-finding and 19 it's for the Commission to decide, as a matter of fact, 19 findings as to liability and levels of competence and 20 whether it believes the various engineers who said they 20 the like. Thank you. 21 were too busy, and that really is a factual matter and 21 MR PENNICOTT: Thank you, sir. 22 22 Examination by MR PENNICOTT a factual matter for you to decide. 23 23 CHAIRMAN: That's the way I've certainly read it. From the Q. Mr Huyghe, good morning, I think. Thank you again for 24 24 very beginning, and I know that Prof Hansford with me, coming back to give evidence to the Commission, and 25 our view is that we are taking this evidence as expert 25 thank you for your reports and your efforts, if I may

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Page 61 Page 63 1 1 say so, on the joint statement, which I'm sure is going the clause to mean that it's from, like, a design 2 to be of significant benefit to the Commission. 2 professional. 3 3 I did notice, and I spoke to Mr Rowsell earlier Q. Okay. I ask you that because you are aware that one of 4 4 the implications or consequences of how one defines the about this, there appear to be one or two typos and 5 missing words, and I think one paragraph in the joint 5 RISC form is whether one is required then to keep it for 6 statement is repeated. I imagine that's a by-product of 6 a number of years after the project has completed. Do 7 7 the communication difficulties that I know that the you recall that that point arose in the first part of 8 8 three of you have had over the last few days in the Inquiry? 9 9 particular. Is that right? A. Yes. 10 A. I noticed the duplication of the paragraph just this 10 Q. The other reason I'm asking you about it is that in your 11 11 slide number 3 that we looked at earlier this morning, 12 Q. Yes. But anyway, we will take it warts and all because 12 you've actually quoted or cited clause G9.2.4 of the 13 in overall terms I think it's extremely helpful, so 13 General Specification, which requires, you say, Leighton 14 14 thank you for that. to "retain all inspection certificates, test 15 Mr Huyghe, I've got some questions for you which, in 15 certificates", and so forth. 16 terms of subject matter, will cover the RISC forms and 16 So I just wondered, having cited that particular 17 various sub-issues in relation to that topic. Then I've 17 provision from the General Specification, whether you 18 got a few questions, not many, on the PMP, the project 18 had, as it were, altered your position and you do accept 19 19 management plan, and PIMS. Then again a few questions that it's some form of formal certificate? 20 on interface management and planning, a couple of 20 A. It's, you know -- to me, when I say that the conformity 21 questions on rebar testing but not many, and then a few 21 "which shall be made available for inspection by the 22 22 miscellaneous points at the end. engineer" -- you could call it a certificate -- in my 23 But before I do that, just for the record, your 23 experience, and you said what's kept at the end of the 24 position as it was in the first part of the Commission 24 project -- I understand, on this project, this is not 25 is that you do not deal with any issues concerning the 25 a record that they keep, that MTR keeps. Page 64 Page 62 government monitoring and control mechanisms? 1 Q. I think this may be a distinction between hard copy and 1 2 2 A. That's correct. soft copy. 3 3 A. But contractors normally keep them. Q. And I think Mr Wall, Leighton's expert, takes a similar 4 position; is that your understanding? 4 Q. Right. 5 A. That's my understanding, yes. 5 A. So I guess the certificate clause, I just never 6 Q. Now, so far as the RISC forms are concerned, the first 6 thought -- when I think of a certificate, it's basically 7 7 a formal certificate that's issued by a professional, topic or subtopic is the very nature of the RISC form. 8 8 versus to an owner and a contractor agreeing to As I understand it from your report, you don't see it as 9 9 an inspection. That's the simplest way I can put it. a formal certificate; have I got that right? 10 10 A. Yes. Q. All right. 11 Q. How do you pigeonhole it? How do you describe it or 11 Moving on, the second topic is in the joint 12 define it as a document? 12 statement, putting together paragraphs 19 and 24 of that 13 13 A. Normally, what I perceive, the RISC form or any joint joint statement, the experts have concluded and agreed 14 14 that the RISC form procedure, as used under inspection, it's just an acknowledgement that both 15 15 contract 1112, was cumbersome, time-consuming and parties have looked at the work that's in place, and 16 it's a project-specific for a specific work activity. 16 inefficient. Have I got that right? 17 It would be like for a foundation or a wall. So, as for 17 A. That's correct. 18 it being called a certificate, it's a document that 18 Q. But, nonetheless, the experts have agreed, in the last 19 I believe that represents an inspection had taken place 19 sentence of paragraph 21 of the joint statement: 20 20 "For quality assurance purposes, the degree of and both parties were supposed to sign it. 21 21 cooperation shared between MTR and Leighton should not Q. Yes. 22 22 A. But being a certificate, and I think I refer in my have been extended to conducting inspections and 23 23 report about this certificate, and the reference in my allowing work to proceed without Leighton's submission 24 of RISC forms." 24 report is to -- certificates are basically provided by

So despite being cumbersome, inefficient,

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construction professionals, like I read the contract or

Page 65 Page 67 1 time-consuming, nonetheless there is a clear recognition 1 site, how would they prepare that, based on the 2 by the experts that for quality assurance purposes the 2 contractor oftentimes can control when that work's going 3 3 RISC forms should have been submitted? to be performed. 4 A. That's correct. 4 Q. But is it that complicated, Mr Huyghe? I know this is 5 5 Q. Now, the third subtopic under RISC forms is that you a complex project, but on this contract could one not 6 make mention in your report of the RISC form register 6 have, right at the outset, worked out where the 7 7 hold-point inspections were so far as the rebar is that was kept by MTR. 8 8 A. Yes. concerned and the concrete pours, worked out the 9 Q. As I think you recognise, the register only tracked RISC 9 sequence by which one would have expected those hold 10 10 forms on the assumption that they had been submitted? points to have taken place, and then worked out, 11 A. That's correct. 11 therefore, approximately, when the RISC forms in 12 Q. What I think Mr Rowsell is saying in his report -- and 12 relation to those hold points could have been expected, 13 can I just see whether you agree with this -- what's 13 and if they didn't turn up, something could have been 14 missing so far as MTRC is concerned, or perhaps what was 14 done about it. Is that that difficult? 15 missing, was a forward planning system so that if a RISC 15 A. Well, every project that's been planned does not get 16 form had not been submitted when it was expected, a red 16 constructed as it was planned at the outset. So, 17 flag would emerge and something could be done about it. 17 therefore, I think that a joint effort on this project, 18 Do you agree with Mr Rowsell's view about that? 18 and any new project, would be that the contractors 19 A. In a perfect world, that would be to me doable, but what 19 basically understand, through their ITP process, when 20 20 my experience has been is that when you talk about the inspections -- and they can identify when things 21 21 trying to get down to the detail of scheduling RISC would occur, because they're the ones that are planning 22 22 forms, it's not really a practical sense in the their work. It's just a moving target as the project 23 construction process. I think what I know to be 23 continues. 24 effective is if you -- usually, contractors have 24 So I think that the ultimate way to handle that is 25 look-ahead schedules, and in the look-ahead schedules 25 more in tune of understanding the work to be performed, Page 66 Page 68 they might try to import into -- a programme into their 1 and then narrow it down to a three-week look-ahead, so 1 2 2 documents, when an inspection is going to be performed. you know exactly what's going to happen on a project 3 3 But I think where the issue lies is if you are during the upcoming weeks, and that should have been 4 talking about putting it into an actual electronic 4 done, and that should have been done by MTR and 5 Primavera schedule, I don't find that would be practical 5 Leightons working together to do it. Now, that kind of 6 to get to that level of detail for RISC forms. a schedule I think is a doable thing, but to try to come 6 7 Q. Can I just pursue that a little further. Let's take the 7 up with an overall project schedule as to when these 8 stitch joints, the original stitch joints, the defective 8 pours were going to be conducted and when the 9 9 stitch joints. What might have been expected, as we inspections were required, to me it's just not feasible. 10 understand it, is a number of RISC forms should have 10 Q. All right. Is any of the digitalisation that we've been 11 been submitted for the various inspections of the rebar 11 hearing about from time to time -- one can see how 12 and the concrete for those stitch joints? 12 that's going to assist in keeping the records, or rather 13 13 A. That's correct. one hopes it's going to help -- is any of that 14 14 Q. No RISC forms at all were submitted for the original digitalisation aimed at, as it were, forward planning 15 stitch joints. 15 and predicting the total number of hold points and total 16 A. That's correct. 16 number of RISC forms that might be expected, albeit in 17 Q. Don't you think that it would have been not too 17 electronic form? 18 difficult, in a forward planning sense, to have 18 A. Yes, because in a lot of projects now, and I mentioned 19 identified, for MTR to have identified, the interface 19 it looks like they're starting with the BIM process --20 points being of risk, that RISC forms could be expected, 20 the BIM process models the project, and it's kind of --21 they didn't turn up and so a red flag would have been 21 it's the old modelling of a project, you saw the actual 22 22 identified? physical model; the BIM does that, and then it's revised 23 A. Obviously, anything you can do to plan ahead for your 23 as the project goes forward, and tied into that now on 24 work -- again, they have to have further detail what 24 projects are the inspections required because as the 25 does that planning tool look like, in actual, on the 25 project is updated into BIM it will actually tell you,

Page 69 Page 71 1 it will feed the information into electronic 1 they should have been done on this project. 2 communication, so you will have a better handle on 2 CHAIRMAN: Sorry to interrupt. 3 MR PENNICOTT: Not at all, sir. 3 what's required. It's a very impressive way of actually 4 notifying people in advance and then also is 4 CHAIRMAN: One way that may be suggested as a consequence is 5 that, unfortunately, both Leightons and the MTR, because 5 a record-keeping process. 6 Q. Understood. That's helpful. Thank you. 6 they had initially given each other leeway, allowed 7 7 The fourth topic is the most difficult one in many a state of mind to develop in terms of which the RISC 8 8 forms were not that important anyway; that if it was ways, because we might be straying into areas that we 9 9 case of getting the work done or filling in the forms, perhaps ought not to be going, but I think you and 10 10 you always got the work done. That would suggest, Mr Rowsell at least agree that the absence of the RISC 11 11 forms on this particular project, this particular unfortunately, a kind of a joint culpability, if I can 12 contract, was an endemic problem. Do you agree with 12 use that term. I'm not talking about contractual 13 that? 13 culpability in any way, but a joint failing. What would 14 14 A. Yes. be your comment there? 15 Q. There were lots of RISC forms missing, in whichever 15 A. My comment on that somewhat during my presentation was 16 that I think that -- and obviously I didn't mean to go 16 17 A. That's right. And there were RISC forms that were 17 outside the bounds of my testimony; I was just trying to 18 share some of my experiences --18 actually submitted, but there were lots that weren't. 19 Q. That's right. So the evidence is there for the 19 CHAIRMAN: We're aware of that. 20 20 A. So I apologise to the Commission if -- I didn't intend Commission to weigh up as to why it happened. But the 21 21 to do that, and I wasn't intending to be an advocate or question I really want to put to you is: what do you 22 22 an adversary. I was intending to just speak from my think should have happened from MTRC's perspective; what 23 23 should the MTRC have done? experience. Maybe sometimes I get carried away, I don't 24 24 A. I think that what MTRC should have done at a particular 25 25 point is, you know, you call a meeting, you don't go the Anyhow, to answer your question, in my opinion, the Page 70 Page 72 nuclear route and suspend concrete work. You call a 1 contractor wants those joint inspection forms completed. 1 2 2 meeting and you sit down with the contractor and say, He needs that to be done. That was ignored by the 3 3 contractor on this project. The contractor and the MTR "Look, you're not performing the work, you're not 4 providing your contractual obligation." To do the RISC 4 got into a point where MTR believed they were going to 5 form and -- if you drew a line in the sand and had that 5 submit the RISC forms, so they continued -- they started 6 meeting, you say, "Okay, we're going to go back and deal 6 to go through and do these verbal joint inspections. 7 7 And once you do that, people are complacent. If they with all the RISC forms, you need to get those up to 8 8 think that's the easiest way to go about getting the job date", but going forward, both parties should have come 9 9 done, that's what they'll do. That's just human nature. up with a means to provide a simpler way -- and 10 I express one in my report -- about how you can actually 10 But I still -- and I want to be clear about this, 11 11 deal with this on a more practical basis. the general contractor's got another reason to do this 12 12 So I think that should have been done. I think versus just have a joint inspection sheet signed. 13 13 Leightons, if they knew that they were not going to be I guess that's my position on it. 14 14 MR PENNICOTT: You see, as I understand it, the experts have providing the RISC forms and are telling MTR they are, 15 15 come up with, in paragraph 17 of the joint statement, but if they're not going to do it, they should have come 16 16 and said, "Look, we just can't do it". Or MTR at essentially the answer that you have just articulated --17 17 a certain point should have said, "Wait a minute, you're sorry, you and Mr Rowsell have come up with the answer 18 not doing it; let's have a meeting and discuss how we 18 that you've just articulated, that you and Mr Rowsell 19 can go forward, come up with a manner to do so, so that 19 "agree that due to not receiving all the RISC forms from 20 20 Leightons, MTR should have eventually conducted joint we satisfy our contractual requirements, based on joint 21 inspections; it might not be the RISC form but it is 21 meetings to come up with a formalised alternative 22 22 a way we can come up with a matter to meet your process." 23 23 contractual requirements, get what the contractor needs I think that's what you and Mr Rowsell agreed. 24 and get what the MTR needs." And those kinds of 24 A. Yes. 25 meetings are the things that are done all the time, and Q. That didn't happen, so far as we are aware.

Page 73 Page 75 1 A. That's right. A. Yes. 1 2 Q. As the Chairman says, and let me try and put it in 2 Q. As I understand it, that's an agreement between all 3 3 slightly different terms, that joint meeting not having three experts; is that right? Is that your 4 happened, you can remind people as much as you like, but 4 understanding? 5 if you don't actually do something about it, something 5 A. Yes. 6 positive about it, isn't, as a matter of human nature, 6 Q. So that's fine. I don't think there's anything I need 7 7 the impression created that you don't really think it to trouble you further about that. 8 8 matters and you're not giving it priority; isn't that Sorry, it's 13 and 14 as well, I think, to be 9 9 the real problem? accurate. 10 A. That is correct. 10 A. Yes. 11 Q. I don't want to look at this in terms of legal analysis, 11 Q. So far as the PIMS is concerned, that is dealt with 12 was it a waiver or anything like that. It's just that's 12 I think in the preceding paragraph, that's paragraph 12. 13 the way it was. 13 14 A. Again, I have to put on my contractor's hat here because 14 Q. In particular the last couple of lines on page 3 -- it 15 15 I've spent so many years in doing it. In my opinion, it says: 16 had been my responsibility -- if I was on the project as 16 "In our opinion we consider that the following 17 a contractor and this was going on -- let's say 17 aspects of MTR's review of its project management 18 I stepped in, into the year, and the RISC forms weren't 18 procedures are the most significant in addressing the 19 19 being done -- it's my obligation, if I'm too busy or for issues examined in the Extended Inquiry." 20 20 whatever the reason, not preparing the RISC forms, it's Then you have (a) through to (g), and those are, as 21 up to me as the contractor, who is outside his contract 21 I understand it, all PIMS-related in one way or another? 22 22 A. Yes. requirements, to go to the owner and say, "Look, I can't 23 do this, I'm having problems, I'm too busy", whatever 23 Q. Okay. Good. 24 the reason is -- I disagree with some of them, but 24 Now, interface planning and management. As you are 25 whatever the reason is, I believe -- and this is not 25 aware, Mr Huyghe, this topic principally arises in the Page 74 Page 76 1 being an advocate or an adversary -- as a contractor, 1 context of the stitch joints. And one of -- and I'm not 2 2 you're not fulfilling your contract requirement. You going back to RISC forms; we've mentioned that in the 3 3 have an obligation to the owner and to yourself to say, context of generally and in relation to the stitch 4 "Okay, let's resolve this. Let's get together. If I'm 4 joints. One issue that arises is the lack of a method 5 not going to do it" -- but from what I read, and I don't 5 statement for the stitch joints. Do you recall that? 6 know how this went on but for two years it went on, 6 7 "You're not giving it to me", "Yes, I'm going to", 7 Q. And in the joint statement at paragraph 26(c), the joint 8 "You're not giving it to me" -- but the contractor 8 statement says: 9 should have said, "Look, I'm just not doing it and 9 "Whilst the use of Lenton couplers was identified at 10 I need to correct this." 10 an early stage at the interface stitch joints in the NAT 11 So I think they should have been the first one --11 area, it does not appear that the associated requirement 12 I think -- and me as a contractor, I would have stepped 12 for tapered reinforcement bars [that's the Lenton bars] 13 up and said, "I need to protect myself", so they should 13 was communicated to Leighton's site teams." 14 have implemented and had that meeting. 14 A missing full stop there, I think. 15 15 "Mr Rowsell and Mr Huyghe agree that annotated CHAIRMAN: We are aware that's a statement that goes to 16 issues of merit, but we are going to take into account 16 drawings would have helped to identify the Lenton 17 Mr Huyghe's reflections on his own experience and as to 17 couplers used on contract 1111. A method statement 18 the importance of the issue, both for the contractor and 18 should have been prepared by Leighton's for the couplers 19 the owner. 19 used in locations for site access." 20 MR PENNICOTT: Thank you, sir. I'm going to move on from 20 Do you see that? 21 RISC forms now, just to try and get through this. 21 A. That's correct. 22 22 Q. I infer from the words "Mr Rowsell and Mr Huyghe agree" Mr Huyghe, so far as the project management plan is 23 23 concerned, the PMP, I think I'm right in saying that the that Mr Wall doesn't? And I think we get that from one 24 24 joint experts have dealt with this in paragraph 13 of of the paragraphs at the end --25 the joint statement? 25 A. Yes.

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A. That's correct. Q. Okay. We can look at the various contract provisions and form our own view about Leighton's obligation in relation to creating a method statement, but we know one was not provided for the stitch joints? A. Correct. Q. Again, can I ask you this. From MTR's perspective, should they have been more proactive, do you believe, in in sisting upon the provision of a method statement? A. From what I've read, what I've looked atI pointed to in my presentation the table that talked about when method statements should be used between the interface of 1111 and 1112. So obviously that should have been incompleted to liaison with the parties about that, whichto me, 22 that means to communicate and cooperate, and I think that power aware that these tapered joints and about the method statement. It's up to the contractor that if they were aware that these tapered joints and about the method statements would definitely have been once that would have been discussion that would have been discussion expected. Page 78 about the method statement. It's up to the contractor that you know, what discussion evolved to, but the method statement would be an action plan with somebody this, and continue to to say. "You are going to do this." CHAIRMAN: That's true, and I think that normally and this went on for a long time you would think there would be an action plan with somebody that; a large project. There were a lot of things being discussed in those meetings of things eliog discussed in those meetings one particular issue. So to me it's always helpful to prepare an action plan and give a designated responsibility to carry through with these things; but important about what wash done. CHAIRMAN: That's what you really need, you need somebody earlier on, whether this is organising the firm's Christmas picnic; it doesn't matter. You need somebody to say, "This needs to be done", point a finger and say, "You are doing it", and then record that fact. So that fact can be raised at the next meet	1	Q where 26(c) is identified as a paragraph that is not	1	ball just goes "boom" and bounces on the ground.
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have to re-acquaint myself with all the evidence, and happens, you know, it's a moving target; when is that				
that will be done, with the assistance of counsel, and 2 going to be? So whenever you get to the point where you				
Prof Hansford and I will do that but it struck me 13 know that there's an issue between the two couplers, and				
almost as if this wasn't something deeply buried in the you know that that work's going to be done in two months				
technicalities of project management. It seemed that 15 from now, we can see it, we know we can plan for it,				-
the parties knew from the beginning that somebody had to then there should have been a definite action plan to				
check with the other contractors as to what their say, "Now we have to go out and do something about it."				
couplers were going to be and the like, and everybody That's where it gets into the method statements.				
sort of acknowledged that that would have to be done, 19 I think the method statement would have helped to then				-
and it was recorded each time they had a meeting, but 20 move that ball forward.		•		
21 nobody actually did it. It's a bit like American 21 COMMISSIONER HANSFORD: Okay.				
football or rugby. The ball is high in the air and it's 22 MR PENNICOTT: Mr Huyghe, rebar testing, just a few points			22	
coming down, and you've got three people standing there, 23 on that. It's dealt with in the joint statement at	23		23	
24 they all know it's coming down but they all think the 24 paragraphs 38 to 42. I think we find the experts' joint			24	paragraphs 38 to 42. I think we find the experts' joint
25 next person is going to catch it, and eventually the 25 recommendation in paragraph 42.	25	next person is going to catch it, and eventually the	25	recommendation in paragraph 42.

Page 81 Page 83 1 So obviously anything can be improved upon, from A. That's correct. 1 2 Q. So far as what happened with this 7 per cent rebar that 2 both sides, but the fact that you had a 93 per cent 3 3 wasn't tested, is it your understanding that at the acceptance rate is a good acceptance rate. 4 time, on the project, MTR didn't in fact have any system 4 Q. All right. But in any event, as I understand it, so far 5 5 in place that enabled it, that is MTR, to verify or as MTR is now concerned, what you and the other experts 6 audit the rebar that was being tested? 6 are proposing is set out at paragraph 42 of the joint 7 7 statement? A. I don't think they had anything on the site, no. 8 8 Q. Because the shortfall in the testing of the rebar, as A. That's correct. 9 9 Q. Which hopefully will give MTR a procedure by which they you probably picked up, came to light because Leighton 10 can also monitor and audit the testing of the rebar? 10 actually identified it. 11 A. Right. 11 A. That's correct. 12 Q. So MTR hadn't identified it, or had not identified that 12 Q. Could I ask you, please, to -- this is really a topic, 13 not all the rebar had been tested. 13 Mr Huyghe, that perhaps is more a question of fact. 14 14 Could I ask you to look at paragraph 114 of your first Can I just ask you -- and it may be that you will report, page 28. It's a miscellaneous point, I think --15 tell me this has all been overtaken by paragraph 42 of 15 16 the joint statement that we've looked at -- but can just 16 A. Yes. 17 I ask you, please, to look at paragraph 38 of your 17 Q. -- Mr Huyghe; it doesn't fall under any particular 18 18 category. But what you say there is: second report. 19 19 "Paragraph 57 of the Rowsell report refers to a part In paragraph 38 of your second report, that's at 20 of MTR's oral opening by its counsel [transcript 20 page 9, you are responding to some paragraphs in 21 21 Mr Wall's report, and then you say: reference given] from which Mr Rowsell apparently 22 22 deduces that only the construction engineers had access "My opinion is that Leighton could and should have 23 23 to the latest drawings as well as the fact that not all done the following". 24 Then you set out (a), (b), (c), (d), (e), (f), as to 24 of the inspection teams had access to the most 25 25 up-to-date drawings, a matter which concerns him." what Leighton should have done, in your view. Page 82 Page 84 But the point I would like to put to you is that 1 If we then flick on to paragraph 119, you say: 1 2 2 what you've identified there are all actions to be taken "Proceeding on this basis and in responding to 3 3 by Leighton; is that right? Mr Rowsell's comment in paragraph 57 of the Rowsell 4 A. That's correct. If you go down -- if you scroll down to 4 report, I am content that all MTR's site staff from both 5 the last -- you know, those came from information that 5 the construction engineering team ... and the site 6 Leighton had provided regarding to what actually 6 inspectorate team ... in fact had access to the 7 7 available latest working drawings through MTR's ePMS." occurred on the project. So I just rephrase to say 8 8 As I say, have you looked at all the evidence that that, okay, these are the things that they should do; 9 9 these are the things that were identified that there pertains to this particular point, Mr Huyghe? 10 10 A. I looked at what was stated by the witnesses regarding were problems on the project. 11 Q. Yes, but my point is that those are all things that 11 to their position regarding to having access to drawings 12 Leighton should have done, and that's fine as far as it 12 before they did inspections. I obviously didn't get 13 goes, but the risk is that Leighton don't do one or more 13 into ePMS and try to determine it for myself, but I just 14 14 of those things and the MTR doesn't know about it. based my opinion on what the witness statements were 15 15 So what I'm more interested in, therefore, is what saying that the individuals who were out in the fields, 16 procedure should MTR have --16 that they had access to the latest drawings through the 17 A. Right. 17 ePMS. 18 18 Q. All right. For example, did you look at the witness Q. -- in place to ensure that Leighton fulfils the various 19 points that you've mentioned. 19 statement of Mr Tony Tang, one of the inspectors of 20 20 works? A. Right. Can I just -- to be quite candid, when you have 21 a project that's got a 93 per cent success rate, you 21 A. I looked at all of them, so ... 22 22 know, that's not a bad per cent rate. I mean, that's Q. Because he says in terms that he, as an IOW, didn't have 23 not -- I didn't look at the rebar inspection -- I didn't 23 access at all times to the up-to-date drawings? 24 24 A. Yes, I read that. really give it that much more thought because I thought 25 25 that that was a pretty good result. Q. Okay. Anyway, a factual matter.

Page 85 Page 87 MR PENNICOTT: Okay. Now it makes sense to me at least. 1 In any event, on that particular point, I think 1 2 again the joint statement assists. If we look at 2 Thank you very much for that. 3 3 Sir, thank you very much. I have no further paragraph 27(d) it says -- again, I think this is all 4 4 auestions. three experts saying, so far as the MTR is concerned: 5 5 CHAIRMAN: Good. Thank you very much. "Review its arrangements for future projects to 6 ensure site staff are provided with the latest working 6 Yes? 7 7 MR SHIEH: Mr Chairman, logically, it should be our turn, drawings and to ensure that all staff have ready access 8 8 but, as a result of some of the questions asked by to them to support reliable surveillance and inspection 9 9 Mr Pennicott and also some of the interventions by you, of the works." 10 10 A. That's true. Mr Chairman, it may well that be we can reconsider some 11 11 Q. So, insofar as there was a deficiency, there is at least of the lines that we are going to take, and it may well 12 a recommendation by the experts jointly on that point? 12 be that an earlier lunch break may assist in sorting out 13 A. And I think, if you look at our discussions about the 13 the lines that we would ask Mr Huyghe and really shorten 14 14 iSuper and the iComm and all the various electronic the matter. 15 technological things that are putting in place, that 15 So could I ask for a slightly earlier lunch break? 16 16 that will cover that. CHAIRMAN: Yes, of course. 17 Q. Yes. 17 MR SHIEH: We can come back a bit earlier, if needed. 18 18 CHAIRMAN: That sounds a sensible procedure. Can I then, I think perhaps lastly from me, 19 19 MR PENNICOTT: Shall we say 2.15 to return, unless Mr Shieh Mr Huyghe, just ask you about one sentence in the joint 20 20 indicates he wants a bit longer? report which I asked Mr Rowsell about earlier and I'm 21 21 CHAIRMAN: Yes, of course. going to ask you the same question, and I'm not going to 22 22 So what we will do is we'll make it 2.15. tell you what his answer was. 23 Prof Hansford just has a question and then we'll 23 Could you look at the heading on page 7, 24 24 "Non-conformance reports". Paragraph 28 deals with how 25 25 COMMISSIONER HANSFORD: I'll take this opportunity to ask my perhaps the non-conformance report procedures could have Page 88 Page 86 1 been utilised in the RISC form point or issue. But then 1 question. 2 2 paragraph 29 says this: There's one sentence, Mr Huyghe, in your first 3 3 report, paragraph 70, that I don't understand. It's the "We suggest that MTR give consideration to enhancing 4 the non-conformance report procedures to increase their 4 final sentence of paragraph 70: 5 5 effectiveness as an early warning mechanism and to "In my view, Leighton did not fully fulfil its 6 6 encourage their use to help ensure that problems are responsibilities or approach the issue with ..." 7 resolved promptly. This could be achieved by having And the issue we're talking about here is the RISC 8 different grades of NCR covering minor, medium and major 8 form issue. 9 9 "In my view, Leighton did not fully fulfil its non-conformances requiring different responses as 10 appropriate." 10 responsibilities or approach the issue with the 'spirit 11 of cooperation' I would have expected from an apparently 11 And it's the last sentence I want to ask you about: 12 12 "As an alternative, more robust use could be made of competent contractor." 13 13 MTR's existing audit procedures." Could you explain that sentence, please? 14 14 What does that mean, Mr Huyghe? CHAIRMAN: The last thing I want to do is cut across 15 A. I think that the use of NCRs are something that should 15 Prof Hansford, whose questions are always impeccable, 16 but I think here we are actually straying into an issue 16 be more employed by MTR, and that in their audit 17 of an expert witness attempting to come to a factual 17 procedure they should mention it. 18 18 Q. I see. Okay. So you are saying that the way that you summation, and I think it may be that it won't, 19 look at that is that there should be -- the audit 19 therefore, assist the Commission to expand on that. 20 20 procedures themselves should make reference to and COMMISSIONER HANSFORD: That's fine. I'm happy with that 21 utilise the non-conformance reporting procedures? 21 CHAIRMAN: Mr Pennicott, you agree? 22 22 MR PENNICOTT: I agree. A. Yes, and, as I understand it, one of the things that 23 23 COMMISSIONER HANSFORD: You are off the hook! they are looking at now is actually doing that, that MTR 24 24 CHAIRMAN: Sorry. That's a technical issue there. It's not is looking into their audit systems, and this all ties 25 into the whole electronic way of doing business. 25 in any way --

	Page 89		Page 91
1	WITNESS: I had a good answer!	1	management issue, and on the other hand you are
2	CHAIRMAN: All right. We'll adjourn until 2.15. Thank you	2	suggesting that missing RISC form issues in practical
3	very much.	3	terms did not reach a critical stage. So are you
4	(12.50 pm)	4	suggesting that within a vital issue, you can subdivide
5	(The luncheon adjournment)	5	that into a problem which is critical and a problem
6	(2.19 pm)	6	which is not so critical?
7	CHAIRMAN: I might just mention sorry, suddenly thinking	7	A. Well, let me answer that by what I actually said so
8	about it the Chief Executive is apparently giving	8	I can explain in more detail.
9	a press conference this afternoon, and there's obviously	9	Q. Yes.
10	some concern. I only mention it because I know that	10	A. What I meant by that, by looking at all the records and
11	there was some commotion in Tsuen Wan over the last few	11	all the witness statements: that both parties were, in
12	days, but we will just plough ahead and should anything	12	the absence of the RISC forms, actually performing
13	happen then we will be advised of it. Okay? Thank you.	13	verbal joint inspections. So, therefore, the options
14	MR SHIEH: Thank you. We have been speculating about what's		were not on the table. I didn't think that they should
15	going to be announced at 3 o'clock, but that shouldn't	15	get to a critical stage to stop the work. There's other
16	hold us up from continuing this afternoon.		
17	CHAIRMAN: Yes.	16 17	avenues they could have taken which I also explain in my
			report, but I didn't think, because of the cooperative
18 19	MR SHIEH: We are grateful for the slightly earlier lunch	18	effort between the parties, that it became a critical
	break and I was able to trim down a good deal of my	19	stage that I would stop the work.
20	proposed questions.	20	Q. The cooperative efforts between the parties?
21	Cross-examination by MR SHIEH	21	A. Exactly.
22	Q. Good afternoon, Mr Huyghe.	22	Q. Thank you.
23	A. Good afternoon.	23	You mentioned also in paragraph 71 that "MTRCL
24	Q. I represent Leighton and I have a few areas to explore	24	implemented timeously project management processes to
25	with you. Can I refer you to the first report that	25	monitor and try and close out this issue."
	Page 90		Page 92
1	Page 90 you have compiled for the purpose of the Extended	1	Can I just put this proposition to you and see
1 2		1 2	Can I just put this proposition to you and see whether you would agree with it: from a project
	you have compiled for the purpose of the Extended		Can I just put this proposition to you and see whether you would agree with it: from a project management perspective, do you accept that the best way
2	you have compiled for the purpose of the Extended Inquiry, at paragraph 67, where you said, in the first	2	Can I just put this proposition to you and see whether you would agree with it: from a project
2 3	you have compiled for the purpose of the Extended Inquiry, at paragraph 67, where you said, in the first sentence:	2 3	Can I just put this proposition to you and see whether you would agree with it: from a project management perspective, do you accept that the best way
2 3 4	you have compiled for the purpose of the Extended Inquiry, at paragraph 67, where you said, in the first sentence: "Late or missing RISC forms is a vital site project	2 3 4	Can I just put this proposition to you and see whether you would agree with it: from a project management perspective, do you accept that the best way to resolve a non-compliance issue is to address the
2 3 4 5	you have compiled for the purpose of the Extended Inquiry, at paragraph 67, where you said, in the first sentence: "Late or missing RISC forms is a vital site project management issue"	2 3 4 5	Can I just put this proposition to you and see whether you would agree with it: from a project management perspective, do you accept that the best way to resolve a non-compliance issue is to address the issue at the time of the discovery of the non-compliant
2 3 4 5 6	you have compiled for the purpose of the Extended Inquiry, at paragraph 67, where you said, in the first sentence: "Late or missing RISC forms is a vital site project management issue" Do you see that?	2 3 4 5 6	Can I just put this proposition to you and see whether you would agree with it: from a project management perspective, do you accept that the best way to resolve a non-compliance issue is to address the issue at the time of the discovery of the non-compliant conduct, rather than to leave it until a later stage?
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after they first "went missing", and I'm putting to you

Page 93 Page 95 1 Q. Would you accept this timeline? 1 that it's a very long time for MTR to wait before 2 2 issuing the first batch. I'm just putting this A. Yes. 3 3 Q. So, based on this timeline, do you accept or are you of proposition to you. 4 the opinion that MTRC did not appear to be treating the 4 A. No, I agree. 5 5 issue of missing RISC forms as a vital project Q. Are you critical of MTR in this regard? 6 management issue? 6 A. I think that MTR should have stepped in sooner, and in 7 A. I don't think, based on not issuing NCR -- again, 7 hindsight, when you look at two years passing, and it's 8 8 I think the project records show that MTR was believing easy to look at hindsight evaluation, but I think that 9 9 the fact that Leightons were going to provide the RISC there should have been -- MTR should have stepped in and 10 10 forms and that's why the process continued. held a meeting. I'm not saying that they had to issue 11 I do believe, as I've stated in my report and some 11 an NCR. I think that they should have recognised that 12 of the recommendations that I've put forth, that NCR is 12 Leighton may not be fulfilling their promises and 13 a good process to implement. But since this was such 13 stepped in at a particular point in time and conducted 14 14 a moving target with regards to the MTR expecting a meeting. 15 Leightons to provide the RISC forms, as they had done in 15 Q. Can I ask you to look at the MTR's NCR register. Please 16 other parts of the project, I think, whether right or 16 look at bundle BB12, page 8373. 17 wrong, they didn't issue an NCR. 17 This is MTR's non-conformance report register for --18 18 Q. There's probably no need to look back at the documentary I think this is the NAT; do you see that? "Location: 19 19 NAT"; do you see that, the second column on the left? evidence of MTR asking Leighton to provide RISC forms, 20 because the documents speak for themselves. 20 A. Yes. 21 21 Q. There's a serial number, and in the yellow column you 22 22 see "Category", it says "Low"; do you see that? Q. And we can all go through the witness statements to look 23 for witness testimony as to who said he or she had asked 23 A. Yes. 24 24 for the RISC forms. Q. And the brief description -- and they all relate to 25 25 A. Correct. missing RISC form for various bays, pre-pour inspection, Page 94 Page 96 1 Q. But on a high level of generality, it's four years, so 1 rebar inspection -- so various stages of the process, 2 2 MTRC had waited four years to issue the first batch of there's a missing RISC form problem and an NCR was 3 NCRs. So, even if MTR had been acting on the strength 3 issued in respect of that; do you see that? 4 of Leighton's promise or assurance to submit RISC forms, 4 5 do you accept that four years is quite a long time for 5 Q. Now, I understand the word "Low" in this NCR register to 6 MTR to react by issuing NCRs? 6 mean of a low risk. Have you seen this NCR register 7 A. Well, based on issuing an NCR, non-conformance report, 7 before? 8 the ones that were issued in April are based on 8 A. I don't recall whether -- I've seen a lot of 9 9 defective work and that's an NCR, to correct the -documents -- whether this is one of them, I'm not sure. 10 Q. Based on what? Sorry, I missed that. 10 Q. I stand corrected but I read the word "Low" in 11 A. They were based on identifying the corrective work. 11 "Category" as meaning low risk, and if you move on in 12 They issued an NCR based on having identified corrective 12 this register it goes on the next page and the page 13 work. The issuance by an owner of an NCR regarding to 13 after next and the page after next and they all refer to 14 14 missing RISC forms. I don't think we need to count a process that is ongoing is another condition. 15 Q. I'm not sure I follow that, because -- do you accept 15 them, but the point I wish to draw your attention to is 16 that if an owner finds that a contractor has been 16 in this register of NCRs, under the "Category", it was 17 falling behind in performing its contractual 17 all described as being "Low"; do you see that? 18 obligations, that issuing an NCR is a proper response to 18 A. Yes. 19 that, to make sure that the contractor is reminded that, 19 Q. Then there is another batch of RISC forms captured by 20 20 "Look, this is something to be taken seriously"; do you another register, and that is bundle BB14, page 9304. 21 accept that proposition? 21 That is the NCR register for the South Approach Tunnel, 22 22 A. That's correct. for the SAT. Do you see the second column on the 23 23 Q. And the NCRs relating to missing RISC forms, this left ---24 24 phenomenon of missing RISC forms, was issued four years A. Yes.

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O. -- the location is "SAT"?

	Page 97		Page 99
1	A. Yes.	1	well say, "I don't agree. He's got it all wrong, he
2	Q. Again, under "Category", it says "Low"; do you see that?	2	ought to say 'high risk'", and immediately create
3	A. Yes.	3	mayhem?
4	Q. That's 9304 all the way down to 9305.	4	A. Also note, this says, "Please propose corrective
5	Now, what I get from these two clusters of NCR	5	action", so there's probably follow-on responses to
6	register is that the MTRC regarded these NCRs of being	6	this. So, like I say, to determine whether this is low
7	of a low-risk category. First of all, were you aware of	7	risk isn't something I can really opine on. This is
8	this characterisation or categorisation by MTR?	8	based on the person who is putting it together.
9	A. I was aware they were keeping track. Whether I saw this	9	Q. Can I ask you to look at Mr George Wall's report,
10	document in full, I'm not sure, because when you look at	10	prepared for part 2 of the Inquiry, at paragraph 55. He
11	the brief descriptions, I think that probably the	11	said in that paragraph:
12	low-risk category may be based upon the actual work	12	"I am of the opinion that it is crucial to
13	identified, but I haven't studied this document, no.	13	distinguish between the inspection itself and the
14	Q. Having seen the way the MTR described this category of	14	documentation relating to the inspection. This is
15	NCRs as being of a low risk, do you accept that	15	because, as I detailed above, the NCR procedure should
16	categorisation?	16	be modified so that minor non-conformities can be
17	A. Well, they prepared it so	17	identified, such as late submission of RISC forms,
18	Q. I know, but you can disagree with them, you can	18	as well as what I would describe to be major
19	criticise them.	19	non-conformities such as a failure to carry out any form
20	A. No, I can't tell because I'd have to look at the details	20	of inspection; the latter of which I have seen no
21	behind that NCR.	21	evidence of on [this] project."
22	Q. These are NCRs relating to missing RISC forms.	22	For this paragraph in Mr Wall's report, is there any
23	A. I understand.	23	part that you do not agree with?
24	Q. If you want a sample, I can show you a sample of these RISC forms. I don't have a detailed correlation of each	24	A. I think, when he says "distinguish between the
25	RISC forms. I don't have a detailed correlation of each	25	inspection itself and the documentation relating to the
	Page 98		Page 100
1	and every RISC form and be able to match them with	1	inspection" as I testified to this morning, I think
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2 3	and every RISC form and be able to match them with an actual sample, but if you want to see what a missing RISC form NCR looks like, I can show you a sample, and	2 3	inspection" as I testified to this morning, I think that they are both equally important. And I do agree with what he says as to coming up with minor
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	Page 101		Page 103
1	consequences, whereas if there's no prescribed record in	1	RISC form problem was the same?"
2	the form of a RISC form, what I'm suggesting to you is	2	Then Kit Chan said:
3	that, at worst, it goes to the ease of proving the	3	"Late submission and no submission, both.
4	details of an inspection. I'm not saying that's not	4	Chairman: No submission or late submission?
5	important. I'm saying that it is of a lesser degree of	5	Answer: Yes, similar."
6	importance than the actual fact of an inspection.	6	You see that is Mr Kit Chan's testimony. Were you
7	A. I agree with that.	7	aware that this was what he said when you compiled your
8	Q. Thank you.	8	report?
9	I'm going to show you some evidence given by	9	A. Yes, I read it.
10	Mr Kit Chan of MTRC. You may or may not have already	10	Q. So you were aware that from the MTRC's perspective, it
11	seen that, but I'm just trying to see whether we are on	11	continued to conduct inspection and proceed with the
12	common ground in relation to that evidence. Can I ask	12	works while aware that RISC forms were submitted late or
13	you to look at BB8, page 5198.	13	were outstanding?
14	You know Mr Kit Chan? He is from the MTR.	14	A. Well, two things. One, I don't agree with the fact that
15	A. Yes.	15	you should let the RISC forms be late. Then obviously
16	Q. He said, in paragraph 42 of his witness statement:	16	he quotes these other projects, but obviously MTR
17	"Despite Leighton's poor RISC form submissions, due	17	proceeded without the formal inspections being noted and
18	to the tight construction programme MTRC did not insist	18	recorded.
19	on a strict adherence to the RISC form inspection	19	Q. Can I now refer you to your second report at
20	procedure as, if it were otherwise, substantial delay to	20	paragraph 7.
21	the works would have been caused."	21	Sorry, before we move on, there is one part of your
22	You are aware that he had said so?	22	testimony this morning, in answer to Mr Pennicott, that
23	A. Yes.	23	I wish to refer you back to, in the context of having
24	Q. Next, I would like to show you what he said when giving	24	seen Kit Chan's testimony. Can I ask you to look at
25	live testimony. That is Day 13 of the Extended Inquiry,	25	this morning's transcript, [draft] page 72. You may not
	Page 102		
1	1 agc 102		Page 104
1	at page 131, line 11. Perhaps we can actually start	1	Page 104 have this morning's transcript in front of your monitor,
1 2		1 2	
	at page 131, line 11. Perhaps we can actually start		have this morning's transcript in front of your monitor,
2	at page 131, line 11. Perhaps we can actually start a little bit earlier, at the start of the question.	2	have this morning's transcript in front of your monitor, but can I just read it out into the record so you can
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2 3 4	at page 131, line 11. Perhaps we can actually start a little bit earlier, at the start of the question. Perhaps we can just start from the previous page at 130, at the bottom, line 20. Can you read from line 20 of	2 3 4	have this morning's transcript in front of your monitor, but can I just read it out into the record so you can hear it. A. Sure.
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- my obligation, if I'm too busy or for whatever the 1
- 2 reason, not preparing the RISC forms, it's up to me as
- 3 the contractor, who is outside his contract requirements
- 4 to go to the owner ..."
- So you gave the answer wearing your hat as the 5 6 contractor; remember that line of questioning?
- 7 A. Mm-hmm.
- 8 Q. My question to you now is this. Can you wear your hat 9
- as a project management adviser and put your hat on as
- 10 an employer, advising the employer. What would you be 11
 - advising, at the time the RISC forms went missing?
- 12 A. There's two answers to that --
- 13 Q. In other words, don't say, "If I were the contractor,
- 14 I would have done X/Y/Z". If you are advising the
- 15 employer --
- 16 A. I understand. I know what you're saying, but again 17 I think that on this particular project, the answer to
- 18
- that particular question, you have to look at what was
- 19 actually going on in the field, and I definitely felt
- 20 that from what I saw, Leighton had performed projects
- 21 where the RISC forms had been provided. On this
- 22 project, I think there was a spirit of cooperation where
- 23 MTR felt that Leighton was going to be providing the
- 24 RISC forms. And as I've stated in my report and I've 25
 - tried to talk to this morning, the fact that there comes

requirement, to come in and say, "Look, I've got 1

- 2 a problem, I can't catch up, and you want us to do it
- 3 and you keep asking me to do it, but I can't catch up,
- 4 so let's come to an agreement on how we can go forward 5 and satisfy both our contract requirements." That's how
- 6

16

23

- 7 Q. Let's not get into the question of whether someone was 8 honest or whether someone thought the other party was
- 9 honest, because this involves looking at the internal
- 10 frame of mind of somebody, but I just want to put to you
- 11 that the fact, the objective fact, that MTRC had been
- 12 prepared to get on with the inspection and construction
- 13 without Leighton providing the RISC forms would have
- 14 created an impression that RISC forms were not on the
- 15 priority list of the MTRC?
 - A. Because they felt that they were going to be getting
- 17 them, because the contractor had told them they were
- 18 going to be getting the RISC forms.
- 19 Q. Right. Can I move on. Your second report,
- 20 paragraph 7 -- by "the second report" I mean the report
- 21 recently filed, I think on 30 September, paragraph 7.
- 22 There you said, eight lines from the top:
 - "In this context, Leighton's own evidence was that
- 24 its engineers were struggling to catch up with the 25
 - progress of the works ..."

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- a time, though, that you have to say they're not giving 1 2
- 2 you the correct information so you need to take
- 3 an action.

1

- 4 Q. When would that have been? Four years after the event?
- 5 A. It's not four years, no. In fact -- hindsight is
 - a wonderful thing. You've got two years that was going
- 7 on when the RISC forms weren't being performed, and
- 8 there was a continual conversation about they were going
- 9 to provide the RISC forms. Now, as a contractor, was
- 10 I telling my owner the truth? I believe Leightons is
- 11 an honest contractor. I think that they probably did
- 12 feel they were going to be providing the RISC forms, and
- 13 I think that the MTR believed they were going to do it.
- 14 So, in the human nature element, yeah, that continues on 15
- now. "You're going to give them to me?" "Yes." "Good.
- You are going to give them to me?" "Yes." So when is 16
- 17 the point in time when you believe the contractor is not
- 18 going to fulfil that obligation? When is that? When do
- 19 you determine that the contractor is not being honest
- 20 with you? When is that? I'd say that it would probably
- 21 be four months in, five months in, maybe, after they
- 22 don't get the RISC forms. That's just my opinion. That
- 23 you would probably call it and say, "Look, this isn't
- 24 working." But as a contractor, I think they had the
- 25 obligation, since they weren't meeting the contract

- A. Are we on the screen with that?
- Q. It's paragraph 7 of your latest report, dated the 30th,
- 3 and eight lines from the top of that paragraph you can 4 see the sentence:
- 5 "In this context, Leighton's own evidence ..."
- 6 A. Okay. I'm sorry. I'm with you.
- 7 Q. Do you see that?
- 8 A. Yes.
- 9 Q. "... Leighton's own evidence was that its engineers were
- 10 struggling to catch up with the progress of the works,
- 11 as they were constantly 'busy' and 'fully occupied' (if
- 12 not overworked) and that this was the reason why it did
- 13 not comply with its contractual obligations ..."
- 14 Do you see that sentence?
- 15 A. Yes.
- 16 Q. It may be a small point. Can I just clarify with you:
- 17 when you put words in italics or quotations, it was
- 18 because you were quoting from the actual words used by
- 19 Leighton's witnesses; correct?
- 20 A. Basically, yes, I was --
- 21 Q. So the words "busy" --
- 22 A. "Fully occupied", "busy", "overworked".
- 23 Q. The earlier phrase, "struggling to catch up with the
- 24 progress of the works", that's not a phrase used by any
- 25 Leighton witnesses; correct? The phrase before, in the

1	Page 109		Page 111
	earlier part of the sentence; yes?	1	at paragraph 20 of your latest report. Through said:
2	A. Oh, yes.	2	"It is clear from the witness statements of
3	Q. " were struggling to catch up with the progress of	3	Leighton's frontline site staff (as already mentioned
4	the works, as they were constantly 'busy'"	4	above) that there were insufficient Leighton resources
5	"Struggling to catch up with the progress of the	5	to support them in preparing and following the RISC form
6	works" is not a phrase or words used by Leighton	6	procedure."
7	witnesses, but	7	Do you see that?
8	A. No. I'm referring to what I my interpretation of	8	A. Yes.
9	reading the documents was that they were struggling to	9	Q. Again, in line with the earlier question I asked you,
10	catch up with the preparation of the RISC forms.	10	there's nothing in Leighton's witness statements which
11	Q. Thank you. So the only thing that is actually from	11	said that "they have not devoted adequate resources";
12	Leighton's witness statements were "busy" and "fully	12	there's nothing of that sort. This is your
13	occupied"? The "struggling to catch up with the	13	interpretation of the effect of Leighton's evidence; is
14	progress of the works" part is your own interpretation	14	that a fair way of putting it?
15	of the words used?	15	A. Yes.
16	A. Yes, that's correct.	16	Q. Can I move on to other relatively smaller areas. You,
17	Q. And you would accept that the interpretation of those	17	in your can I ask you to look at the joint project
18	factual witnesses is a matter for the Commission?	18	management statement for COI 1. I have to put a point
19	A. Yes, completely.	19	to you because this is a point brought up by Mr Wall
20	Q. Thank you.	20	COI 1 joint project management statement, paragraph 26.
21	Paragraph 10 of the same report move down	21	Here, under the heading "Full-time and continuous
22	a bit you said, in the third line from the end:	22	supervision", you said:
23	" it is apparent from the evidence that they	23	"[You] agree that 'full-time and continuous
24	[meaning Leighton] put programme ahead of quality, and	24	supervision' does not mean 'man-marking'. The
25	this prioritising eventually led to gaps in the	25	requirements for supervision by the contractor are set
	Page 110		Page 112
1	record-keeping procedures."	1	out in the General Specification and require a minimum
2	Do you see that sentence?	2	
3	A. Yes.	4	ratio of 1 supervisor to no more than 10 workers."
ı	A. 10s.	3	ratio of 1 supervisor to no more than 10 workers." Do you see that?
4	Q. But you would accept that MTR and Leighton did		Do you see that? A. Yes.
4 5		3	Do you see that?
	Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you?A. Yes.	3 4	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is
5	Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you?A. Yes.Q. And you would accept, would you not, that leaving aside	3 4 5	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw
5 6	Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you?A. Yes.Q. And you would accept, would you not, that leaving aside documentation, MTRC did give verbal consent before	3 4 5 6	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is a minimum of one to ten? A. Yes.
5 6 7 8 9	Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you?A. Yes.Q. And you would accept, would you not, that leaving aside documentation, MTRC did give verbal consent before proceeding to pouring of concrete?	3 4 5 6 7	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is a minimum of one to ten? A. Yes. Q. Can I now take a look with you at the General
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you? A. Yes. Q. And you would accept, would you not, that leaving aside documentation, MTRC did give verbal consent before proceeding to pouring of concrete? A. Yes. Q. So would you therefore agree that late or no RISC forms did not impact on quality; it at worst impacted on record-keeping? A. Well, not having the RISC forms, they would not be able to put that in their quality programme either, the QAP. So I'm not sure I understand your question. If you don't have the RISC forms, you can't update your quality programme, which was a requirement, so Q. By "quality" I mean quality of works, whether things were done properly, whether things were connected; "quality" in that sense. 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is a minimum of one to ten? A. Yes. Q. Can I now take a look with you at the General Specification. Before I do that, can you look at Mr Wall's report, paragraph 73. Mr Wall, in this paragraph, referred to the supervision ratio, and he said: "I note Mr Rowsell's reference to the supervision ratio specified under clause G3.9.1 of the General Specification. However, I would highlight that this supervision ratio relates to health and safety and not quality assurance matters. In particular, it does not relate to the supervision or inspections of reinforcement or coupler works." First of all, do you have any recollection of clause
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you? A. Yes. Q. And you would accept, would you not, that leaving aside documentation, MTRC did give verbal consent before proceeding to pouring of concrete? A. Yes. Q. So would you therefore agree that late or no RISC forms did not impact on quality; it at worst impacted on record-keeping? A. Well, not having the RISC forms, they would not be able to put that in their quality programme either, the QAP. So I'm not sure I understand your question. If you don't have the RISC forms, you can't update your quality programme, which was a requirement, so Q. By "quality" I mean quality of works, whether things were done properly, whether things were connected; "quality" in that sense. A. Well, the joint inspections that were performed should 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is a minimum of one to ten? A. Yes. Q. Can I now take a look with you at the General Specification. Before I do that, can you look at Mr Wall's report, paragraph 73. Mr Wall, in this paragraph, referred to the supervision ratio, and he said: "I note Mr Rowsell's reference to the supervision ratio specified under clause G3.9.1 of the General Specification. However, I would highlight that this supervision ratio relates to health and safety and not quality assurance matters. In particular, it does not relate to the supervision or inspections of reinforcement or coupler works." First of all, do you have any recollection of clause G3.9.1?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you? A. Yes. Q. And you would accept, would you not, that leaving aside documentation, MTRC did give verbal consent before proceeding to pouring of concrete? A. Yes. Q. So would you therefore agree that late or no RISC forms did not impact on quality; it at worst impacted on record-keeping? A. Well, not having the RISC forms, they would not be able to put that in their quality programme either, the QAP. So I'm not sure I understand your question. If you don't have the RISC forms, you can't update your quality programme, which was a requirement, so Q. By "quality" I mean quality of works, whether things were done properly, whether things were connected; "quality" in that sense. A. Well, the joint inspections that were performed should have addressed the quality issues. 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is a minimum of one to ten? A. Yes. Q. Can I now take a look with you at the General Specification. Before I do that, can you look at Mr Wall's report, paragraph 73. Mr Wall, in this paragraph, referred to the supervision ratio, and he said: "I note Mr Rowsell's reference to the supervision ratio specified under clause G3.9.1 of the General Specification. However, I would highlight that this supervision ratio relates to health and safety and not quality assurance matters. In particular, it does not relate to the supervision or inspections of reinforcement or coupler works." First of all, do you have any recollection of clause G3.9.1? A. I've read it but I can't
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. But you would accept that MTR and Leighton did coordinate and conduct inspection of works, would you? A. Yes. Q. And you would accept, would you not, that leaving aside documentation, MTRC did give verbal consent before proceeding to pouring of concrete? A. Yes. Q. So would you therefore agree that late or no RISC forms did not impact on quality; it at worst impacted on record-keeping? A. Well, not having the RISC forms, they would not be able to put that in their quality programme either, the QAP. So I'm not sure I understand your question. If you don't have the RISC forms, you can't update your quality programme, which was a requirement, so Q. By "quality" I mean quality of works, whether things were done properly, whether things were connected; "quality" in that sense. A. Well, the joint inspections that were performed should 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that? A. Yes. Q. So you refer to the General Specification and you draw your conclusion that the minimum requirement is a minimum of one to ten? A. Yes. Q. Can I now take a look with you at the General Specification. Before I do that, can you look at Mr Wall's report, paragraph 73. Mr Wall, in this paragraph, referred to the supervision ratio, and he said: "I note Mr Rowsell's reference to the supervision ratio specified under clause G3.9.1 of the General Specification. However, I would highlight that this supervision ratio relates to health and safety and not quality assurance matters. In particular, it does not relate to the supervision or inspections of reinforcement or coupler works." First of all, do you have any recollection of clause G3.9.1?

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- 1 Can I just have one moment, because I have a reference
- 2 somewhere. C3, it's in COI 1 bundle, 2040. Thank you.
- 3 It's General Condition 3.9.1. It says:
- 4 "The Contractor shall provide adequate supervision
- 5 to ensure that all works on Site are carried out safely.
- 6 Works shall be arranged so that the Works are supervised
- 7 at a minimum ratio of 1 supervisor to no more than
- 8 10 workers."
- 9 Do you see that?
- 10 A. Yes.
- 11 Q. If you move to page 2037, this entire section 3 is under
- 12 the heading "Health and safety"; do you see that?
- 13 A. Yes.

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- 14 Q. So the point I suggest to you is that insofar as you
- 15 have derived this ratio of one supervisor to ten from
- 16 the General Conditions, I'm suggesting to you that it is
- 17 in a clause which is under a section concerning health
- 18 and safety and not in relation to quality assurance
- 19 matters. Do you accept that?
- 20 A. No. I think health and safety is part of the quality
- 21 programme. But I think one of the things I would
- 22 recommend -- and you are referring to my first report
- 23 and there was a lot of content in that report about the
- 24 supervision of the project and how the various
 - components of the works should be supervised. So

- 1 the QSP requirements for record-keeping, et cetera, only
 - 2 apply in areas which are subject to a requirement of
 - 3 ductility?
 - 4 A. Yes, and the interesting thing about this project is 5 that the contractor used the ductile couplers when they
 - 6 probably could have got by with a non-ductile coupler.
 - 7 So I think it's really a non-issue.
 - 8 Q. Ah. You see, again, it ultimately may be a question of
 - 9 interpretation, but would you accept that there is 10
 - a difference between whether or not an area is subject 11 to a ductility requirement on the one hand and whether
 - 12
 - or not ductile couplers were in fact used in an area on
 - 13 another --
 - 14 A. Yes. You go by the drawings to determine where the
 - 15 ductile requirement is.
 - 16 Q. Thank you. So you could have a situation where an area,
 - 17 according to the drawings, is not subject to a ductility
 - 18 requirement but, for whatever reason, people chose to
 - 19 use ductile couplers? You accept that there could be
 - 20 this scenario; yes?
 - 21 A. Yes, but again, I guess, I believe also that they all
 - 22 need to be supervised, whether they are ductile or not.
 - 23 But yes, I agree with you. It's laid out on the
 - 24 drawings and the ductile requirements are actually
 - identified.

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- Q. So you go by the drawings to identify whether an area is
- 2 subject to a ductile requirement?
- 3 A. Yes.
- 4 Q. Thank you.
- 5 A final topic on interface management. Do you
- 6 accept that, as a matter of proper project management
- 7 and contract administration, it would be desirable if
- 8 MTR were to have asked Atkins to issue a drawing
- 9 amendment to show that the couplers at the interface
- 10 were different couplers, different types of couplers?
- 11 A. I think that -- and this is one of the things I haven't
- 12 been able to -- I couldn't find, and that was that the
- 13 drawings from contract 1111, I thought it would be
- 14 helpful if those drawings had the type of coupler that
- 15 was used in contract 1111. And, therefore, you would
- 16
- have a document that would educate people as to the use
- 17 of the Lenton couplers.
- 18 But I think that the actual going back to Atkins to
- 19 identify it -- it's more important to me, as
- 20 I mentioned, that once it was recognised that there was
- 21 a difference in the couplers, a method statement that
- 22 actually went to the field would actually be a more
- 23 proper way to deal with that.
 - Q. Do you have any actual experience of managing a project

- 1 I think -- I suggest you read my report in full to talk
- 2 about the supervision requirements, because I don't
- 3 really get into the one to ten. I make other comments
- 4 regarding to supervisory support on a project.
- 5 Q. Thank you. I'm not going to dwell on that for too long
- 6 because ultimately these are matters of interpreting the
- 7 various clauses. I just want to lay down the relevant
- 8 marker as to where we disagree, because ultimately, do 9
- you accept that interpretation of contractual clauses 10 ultimately are matters for ...? (Indicating the
- 11 Commissioners).
- 12 A. That's exactly correct.
- 13 Q. Do you accept -- now, in your joint statement in COI 1,
- 14 in the first part, you have accepted that full-time
- 15 continuous supervision does not mean man-marking; do you
- 16 remember that?
- 17 A. That's correct, yes.
- 18 Q. Would you also accept that it doesn't mean that there
- 19 has to be a supervisor who is present 100 per cent of
- 20 the time when works are being done?
- 21 A. That's correct.

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- 22 Q. Now I move on to the question of QSP requirement.
- 23 Again, there probably is no need to look up the actual
- 24 wording. We can, if we have to. Do you accept that the

requirement of full-time and continuous supervision and

25 in Hong Kong for a contractor?

Page 117 A. No. 1 2 MR SHIEH: Thank you. I have no further questions, but 3 subject to one caveat and that is to echo what Mr Chang 4 said this morning: there are many matters in what 5 Mr Huyghe had said both in the synopsis and in the 6 written report which may be susceptible to argument 7 whether or not it really is expert project management 8 evidence or whether it is personal interpretation of 9 facts. But I do not wish to take up time in going 10 through that, but can I just reserve those matters for 11 submissions? And the fact that I have not actually 12 tackled Mr Huyghe on those matters should not be 13 regarded as somehow acquiescing that those are proper 14 subject matter of expert testimony. 15 CHAIRMAN: That's fully understood. 16 MR SHIEH: On that note, I have no further questions. 17 Cross-examination by MR KHAW 18 MR KHAW: Just perhaps three questions from the government. 19 I'll just plough on so that everyone can go soon. 20 Mr Huyghe, if I may just ask you to have a look at 21 your first report. There's just one small bit that 22 I wish to perhaps clarify with you. Your first report, 23 paragraph 111, internal page 27 -- yes, the last 24 paragraph -- where you talk about the RISC forms and the 25 inspections. At 111 you said: Page 118 1

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- A. Yes, and that's particularly identifying the coupler
- 3 Q. Yes.

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- 4 A. So yes, I agree with that.
- 5 Q. Insofar as it relates to the 20 per cent supervision by
 - MTRCL, would you agree that MTR failed in that respect?
- 7 A. You know, when you try to determine how much time 8
 - somebody spent at 20 per cent, it's very difficult.
- 9 I do know that MTR inspectors are out there full-time 10 and continually.
- 11 Q. Yes.
- A. So to try to pigeonhole it to say it was 20 per cent or 12 13 not, I really don't know.
- 14 Q. Right. If I can just ask you to look at some
- 15 photographs in relation to some defective coupling
- 16 works. If I can ask you to take a look at DD14, please,
- 17 15340. That's a cover page introducing various
- 18 photographs of the open-up inspections for defective
- 19 stitch joints.

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- If I can take you to the next page, 15341. Now,
- 21 this is apparently a picture which was taken in,
- 22 I believe, February 2018. You may be able to see the
- 23 date at the end of this page. If we can blow it up
- 24 a little bit, 15341, you will see the date; right?
 - A. Yes.

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- "As such, I consider that inspections were made at the hold points albeit that the RISC forms may have been missing or not provided timeously."
- Pausing here, just as a general proposition, would you agree that in the absence of -- with the missing
- RISC forms, in the absence of the complete set of RISC
- 7 forms, it would be rather difficult to verify or
- 8 ascertain whether and perhaps how inspections at the
- 9 hold points were in fact carried out or not? Would you
- 10 agree as a general proposition?
- 11 A. I agree to that, yes.

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- 12 Q. If I may then take you to have a look at Mr Rowsell's 13 report. Page 29, paragraph 52, where he identifies 14 certain contributory factors in the non-identification 15 of defects during inspection, and they included, if you 16 look at (h), "failure to ensure full-time supervision of 17 the coupler works by the contractor [ie Leighton] and 18 for MTRCL to provide 20 per cent attendance".
 - Now, pausing here, that is one of the contributory factors identified by Mr Rowsell. Now, insofar as it relates to the full-time supervision of coupler works by Leighton is concerned, I take it that you would agree with his observation; is that correct? That is the contractor failed to provide full-time supervision of the coupler works?

- 1 Q. We can see the defective coupling works here; can you 2 see that?
- 3 A. Yes.
- 4 Q. If I can sum up, I must say it's pretty alarming,
- 5 because if you can take a look at, for example, 15342, 6
 - the one at the bottom right -- do you see that?
- 7 A. Yes.
- 8 Q. Then if I can take you to see a bit more. 15344.
 - Again, at the bottom, at the right and also the left; do
- 10 you see that?
- A. Yes. 11

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- 12 Q. If we look at these pictures, is it fair to say that
- 13 it's reasonable to cast some doubt as to whether MTR
- 14 actually properly carried out the 20 per cent
 - supervision of the coupler works?
- 16 A. Yes. I mean, just based on the fact that this work is
- 17 defective can draw a question as to what was actually
- 18 inspected.
- 19 Q. Yes. At least in relation to the hold-point inspection, 20 would you agree that one can at least cast doubt on
- 21 whether supervision by MTR had been properly done?
- 22 A. You mean the supervision or the inspection by MTR?
- 23 Q. Yes.
- 24 A. Yes, I think it draws question to all parties.
- 25 Q. Thank you.

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1	COMMISSIONER HANSFORD: Sorry, that word you think it	1	7 per cent, it would be a question then of seeing
2	draws questions to all "parties", did you say?	2	whether location is a material or determining factor?
3	A. Yes, based on there should be joint inspections of this	3	A. Yes, at the location where that
4	work.	4	CHAIRMAN: If it's spread, it would be unlikely to well,
5	COMMISSIONER HANSFORD: I was just trying to get it for th	e 5	let's say it was spread across the entire spectrum of
6	transcript.	6	the work, that may be different from it would be the
7	A. I'm sorry.	7	final 7 per cent which was all in one area?
8	COMMISSIONER HANSFORD: Thank you.	8	A. Normally, you test in batches, so you have a batch of
9	MR KHAW: Finally, if I can then take you to your first	9	steel. Then, whatever the testing requirements for that
10	report, Mr Huyghe, paragraph 133, page 31.	10	batch, and then that batch goes into a certain location.
11	Again, just a rather general point here. I think	11	So obviously the testing requirement should pertain to
12	you agreed with Mr Rowsell that "whilst the specific	12	that particular batch that goes into that particular
13	testing requirements for the contract were not fully	13	location.
14	achieved, the successful testing of 93 per cent of the	14	CHAIRMAN: Okay. Good. Thank you. That helps me.
15	steel delivered to site should give a good degree of	15	Anything arising from that?
16	confidence that the reinforcing steel used in the	16	Mr Clayton?
17	project has met the required standards."	17	MR CLAYTON: I have no questions, sir.
18	If you can just pause here. Are you aware that	18	CHAIRMAN: Thank you very much.
19	statistical evidence has been adduced for the purpose of	19	Any re-examination?
20	ascertaining whether 93 per cent rebar testing would be	20	Re-examination by MR BOULDING
21	able to achieve the required standards?	21	MR BOULDING: Yes. Just a couple of questions, I think,
22	A. Just in passing conversations, by being here, I have	22	Mr Huyghe.
23	a	23	Do you recall being asked by both Mr Pennicott and
24	Q. Thank you. When you come to this conclusion or come to	24	Mr Shieh about RISC forms?
25	this agreement with Mr Rowsell that 93 per cent "should	25	A. Yes.
	Page 122		Page 124
1	give a good degree of confidence that reinforcing steel	1	Q. And you were asked about MTR's evidence, and in
2	has met the required standards", is it fair to say that	2	particular how what the various witnesses said/did/did
3	you reached this conclusion largely on the basis of	3	not do affected MTR's affected, sorry, Leighton's
4	perhaps a common-sense approach, on the basis that	4	attitude to RISC forms. Do you remember that line of
5	there's this 93 per cent rebar testing, so it should be	5	questioning?
			^
6	all right? Can we say that?	6	A. Yes.
6 7	A. It's really based on my experience in actually building		A. Yes. Q. I wonder whether we can just look at one of the witness
7 8	A. It's really based on my experience in actually building projects and having reinforcing steel checked. It's	6 7 8	A. Yes.Q. I wonder whether we can just look at one of the witness statements. It's Mr Victor Tung, and it's BB5248.
7 8 9	A. It's really based on my experience in actually building projects and having reinforcing steel checked. It's from a construction perspective.	6 7 8 9	A. Yes. Q. I wonder whether we can just look at one of the witness statements. It's Mr Victor Tung, and it's BB5248. Thank you. If you can just scroll down.
7 8 9 10	A. It's really based on my experience in actually building projects and having reinforcing steel checked. It's from a construction perspective.Q. And would you agree that in order to determine whether	6 7 8 9 10	A. Yes. Q. I wonder whether we can just look at one of the witness statements. It's Mr Victor Tung, and it's BB5248. Thank you. If you can just scroll down. Is this a witness statement you will have read,
7 8 9 10 11	 A. It's really based on my experience in actually building projects and having reinforcing steel checked. It's from a construction perspective. Q. And would you agree that in order to determine whether 93 per cent testing would give a good degree of 	6 7 8 9 10 11	A. Yes. Q. I wonder whether we can just look at one of the witness statements. It's Mr Victor Tung, and it's BB5248. Thank you. If you can just scroll down. Is this a witness statement you will have read, Mr Huyghe?
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	Page 125		Page 127
1	see Mr Tung talking about RISC forms?	1	MR PENNICOTT: 10.00, sir.
2	A. Yes.	2	CHAIRMAN: 10 o'clock. Thank you.
3	Q. Perhaps you could just read paragraph 32 to yourself.	3	(3.28 pm)
4	Tell the operator when you need to scroll down, please.	4	(The hearing adjourned until 10.00 am
5	A. Scroll down, yes.	5	on Monday, 8 October 2019)
6	Yes.	6	on Monday, o October 2019)
7	Q. Have you read that?	7	
8	A. I'm reading down all the way to the bottom.	8	
9	Q. Okay. Don't let me rush you.	9	
10	A. Yes.	10	
11	Q. Now, assuming that evidence is accepted by the	11	
12	Commission of Inquiry, from a project management	12	
13	perspective, do you have a view as to whether what	13	
14	Mr Tung said and did should have created an impression	14	
15	on the part of Leighton that RISC forms were not	15	
16	a priority for MTR?	16	
17	A. No.	17	
18	MR BOULDING: Thank you, Mr Huyghe. I have no further	18	
19	questions.	19	
20	I don't know, Chairman or Professor?	20	
21	CHAIRMAN: No. Thank you very much indeed.	21	
22	MR PENNICOTT: Thank you, Mr Huyghe.	22	
23	CHAIRMAN: Mr Huyghe, thank you very much. You have	23	
24	assisted us greatly and I know you have put in a lot of	24	
25	hard work and we have obliged.	25	
	Page 126		Page 128
1	WITNESS: My pleasure. Thank you.	1	INDEX
2	CHAIRMAN: Thank you.	2 2	PAGE
3	(The witness was released)	3	MR DEAN COWLEY (affirmed)2
4	MR SHIEH: Mr Chairman, after Mr Huyghe, I understand the	3 4	Examination-in-chief by MR CHANG2
5	next witness is supposed to be Mr Wall on behalf of	4 5	Examination by MR PENNICOTT2
6	Leighton, scheduled for Tuesday.	5	·
7	CHAIRMAN: Tuesday.	6 6	Cross-examination by MR BOULDING18
8	MR SHIEH: I understand there's no further witnesses lined	7	(The witness was released)24
9	up for today, so perhaps we can have an early finish.	7 8	MR STEVEN ALBERT HUYGHE (on former oath)25
10 11	CHAIRMAN: All right. Good. Then we will do that. (Tribunal conferring)	8 9	Examination-in-chief by MR BOULDING25
12	Just one thing from the Secretary to the Commission.	9	Oral synopsis by MR HUYGHE28
13	Because of the announcement given this afternoon, and	10	
14	although there's no concern at this moment of anything	11 11	Examination by MR PENNICOTT60
15	actually happening, prudence dictates that coming back,	12 12	Cross-examination by MR SHIEH89
16	as sometimes has been the case, up until 8 pm at night	13	Cross-examination by MR KHAW117
17	before these offices are closed today may not be	13 14	Re-examination by MR BOULDING123
18	prudent.	14	·
19	You will obviously be given as much time as you need	15 16	(The witness was released)126
20	to leave, but once you are gone then the offices will be	17	
21	closed. So, if you want to come back later for any	18 19	
22	reason, I'm afraid it will have to wait.	20	
23	Good. Apologies for that but it's a measure of	21 22	
24	safety.	23	
24	sarcty.	24	