Page 1 Page 3 Wednesday, 5 June 2019 A. Yes, that's the way it's shown. 1 1 2 (10.01 am) 2 Q. Thank you very much. You have been through this process 3 MR SHIEH: Mr Chairman, Mr Commissioner, I now have Mr Karl 3 before and I'm just reminding you that counsel for other 4 Speed as Leighton's next witness. 4 parties and counsel for the Commission would be asking 5 CHAIRMAN: Yes. 5 you some questions, and the Chairman and the MR KARL ROBERT SPEED (affirmed) 6 6 Commissioner may have their questions for you as well. 7 Examination-in-chief by MR SHIEH 7 A. Yes. 8 MR SHIEH: Good morning, Mr Speed. Welcome to the 8 MR SHIEH: After all that, if I wish to, I can ask follow-up 9 Commission of Inquiry again. 9 questions, so can you remain seated and answer the 10 You have made two witness statements for the purpose 10 questions. Thank you. 11 of this part of the Inquiry. Can I take you first of 11 WITNESS: Thank you. 12 all to bundle CC1, page 49. 12 Examination by MR PENNICOTT 13 This is a document entitled, "Fifth witness 13 MR PENNICOTT: Mr Speed, good morning --14 statement of Karl Speed; do you see that? 14 A. Good morning. 15 A. Correct. 15 Q. -- again. Mr Shieh has helpfully explained the process, 16 Q. Can you turn to page 71. I believe that is your 16 with which I know you are familiar, so I won't go 17 signature on that page? 17 through it again. Thank you very much indeed for coming 18 A. Yes, it is. 18 along to give evidence to the Commission once more. Q. Next, can I ask you to look at bundle CC6, page 3764. 19 19 As we've just heard and as you say in your witness 20 A. I have 3763 here at the moment. 3764? 20 statement, you are the general manager of Leighton, and 21 Q. Sorry, my mistake. 3752. It's my mistake, sorry. 21 as I understand it you've been in that post since April 22 3752. 22 2017? 23 23 A. Yes. I think around 24 April. 24 24 Q. That is your sixth witness statement; do you see that? Q. Yes. I think we pick that up from your earlier witness 25 A. Correct, yes. 25 statement in the first part of the Inquiry. Page 2 Page 4 Q. Can you turn to page 3763. 1 1 A. Correct. 2 2 Q. And you have general responsibility, as I understand it, A. Yes. 3 Q. I believe that is your signature on that page? 3 for all of Leighton's contracts, certainly in Hong Kong? 4 4 A. That's correct. A. Yes, in Hong Kong. Q. Do you put forward the content of these two statements 5 5 Q. So not just the SCL project but all other contracts? 6 as your evidence in this part of the Inquiry? 6 A. All the other projects, yes. 7 7 A. Correct. Q. Now, I've just got a number of questions to ask you 8 Q. Thank you. Can I ask you to also turn to page 526 of 8 about. 9 bundle CC2. You can look at the monitor in front of 9 First of all, can I ask you to look at paragraph 13 10 10 you. Page 526. of your fifth witness statement, so that's at CC54. 11 11 CC1, page 54. This is an organisation chart. A. Yes, I see it. A. Okay. 12 12 13 Q. If you look at the blue box on the top, "MTRC", below 13 Q. You say there: 14 that you can see Anthony Zervaas, and next to Anthony 14 "The NAT stitch joints and SNJ [that's the shunt 15 Zervaas we can see your name --15 neck joint] were cast as late as possible after 16 16 completion of backfilling and groundwater recharge, as 17 Q. -- Karl Speed. And this is the organisation chart as of 17 required by" -- and then you give a drawing reference 18 May 2017, if you look at the top left-hand corner? 18 which I'll call "101A" for short -- "in the index." 19 A. Yes. 19 Do you see that? 20 20 Q. Is this consistent with your understanding of the A. Yes. 21 organisation structure within which you were placed? 21 Q. I've asked this a couple of times of a few witnesses 22 22 A. Yes. I was a general manager for the Hong Kong already. Mr Speed, are you able to assist us with this 23 23 question: when do you know when the two structures 24 Q. Right. And you are on the same level as Anthony Zervaas 24 either side of the stitch joint have reached a position 25 on this organisation chart? 25 or a situation where it is, as it were, safe and

Page 5 Page 7 1 permissible to get on to build the stitch joint? 1 are you? 2 2 A. I don't think so. I don't think that was a document we 3 3 Q. How does one know that and who makes the decision? produced. 4 4 Q. No. All the others I can well see the relevance of and A. I think that decision is made basically by the project. 5 You'd have to go through that detail with them 5 the materiality of insofar as Leighton is concerned, but 6 specifically. Obviously we cast the stitch joints late 6 there was never any question, as I understand it, of 7 to prevent differential settlement, but the specifics 7 Lenton couplers being used by Leighton; it was entirely 8 and dates and engineering, you would have to go through 8 BOSA couplers? 9 with the teams. 9 A. That's correct. 10 10 Q. Okay. Q. But can you help with this to this extent: is it the 11 position that the Leighton structure on the one side and 11 Now, in paragraph 16 of the same statement, you say: 12 the Gammon-Kaden structure on the other side -- are they 12 "The NAT be stitch joints were constructed 13 being monitored constantly for that settlement so that 13 approximately nine months after the construction of the 14 14 when they reach a particular, if you like, stabilised adjacent bays on the SCL1112 side of the NSL rail tunnel 15 state, then the stitch joints can go ahead? 15 and EWL trough structure. The sequence of construction 16 A. You know, I could speculate with the answer, but I would 16 for the NAT stitch joints (with the party responsible 17 prefer if the right people answer that question. 17 for each step listed in brackets) should have been as 18 Q. Right. Who do you think are the right people? I expect 18 follows". 19 there may be somebody from MTR, perhaps, who can come 19 Then can I ask you about, first of all, (b), 20 along and tell us, but ... 20 "scabbling of construction joint surfaces". Mr Speed, 21 A. I think probably the engineering manager would be a good 21 do you mean by that the chipping away and removal of 22. 22 person to speak to regarding the specifics at the time. concrete to expose the couplers? 23 Q. Mr Holden may know? 23 A. No, just removing a thin layer of concrete to prepare 24 A. He possibly may know. I don't know if he was involved 24 the surface, scabbling, not the chipping-out for the 25 at this stage. He was involved obviously in the defect 25 couplers, no. Page 6 Page 8 rectification later. 1 1 Q. Therefore, if that's right, presumably there is a step 2 O. Yes, he was. I don't think he was involved --2 missing here, is there? That is --3 3 A. Okay. Maybe it does include it, but scabbling itself A. I don't know if he was involved specifically around this 4 4 can refer to two items. Maybe it does include that as at the time. 5 5 Q. Okay. well, by Hills. 6 A. But it would have been discussed on the project and it 6 Q. Right. But as we now understand it -- I don't know 7 7 would have been agreed to go ahead. whether you've had an opportunity of looking at it --8 8 from Mr Joe Tam's recent witness statement, what Q. All right. 9 Then, at paragraph 15 in the same witness statement, 9 happened was that on the Leighton side, Hills, as we 10 10 you -- we'll just see what you are dealing with first of understand his statement, Hills, together with some 11 11 all. Just above paragraph 14 you have a subheading, Leighton direct labour, removed and chipped away the 12 12 "General -- NAT stitch joints"; do you see that? concrete on the Leighton side to expose the couplers. 13 A. Yes. 13 Have you seen this? 14 Q. Then at paragraph 15 you say: 14 A. I've not been through the witness statement, but the 15 "The following documents set out the standards and 15 method is clear, yes. 16 requirements for the rebar fixing and concreting works 16 Q. Right. But on the Gammon side, we are told by Mr Tam 17 in the construction of the NAT stitch joints". 17 that the Gammon-Kaden Joint Venture itself, or one of 18 18 Then you set out a series of documents, from (a) to their sub-contractors, I know not, was responsible for 19 (i), and the one that I was interested in was (g), where 19 removing and chipping away the concrete on the Gammon 20 20 you say: side to expose the Lenton couplers on that side. 21 "Lenton (coupler manufacturer/supplier for SCL1111) 21 Presumably you accept that that's what Mr Tam says? 22 22 technical and quality assurance manual ELQ-01 ...", and A. That's what he says, that's what my understanding is. 23 then you give a reference. 23 Not unusual. 24 24 You are not, as I understand it, suggesting that Q. All right. 25 that's a document that Leighton produced and submitted, Then you say at (c) here:

Page 11 Page 9 1 "inspection of couplers installed into outer 1 the dynamics. As a layperson, if I suggested the 2 reinforced concrete structure on both sides of the joint 2 following, can you tell me where I fall down, where this 3 3 to confirm the number is adequate, the diameter, system would be wrong? 4 4 alignment and spacing is correct and the thread appears You have the Leighton engineer on site, and he is 5 5 undamaged (Wing & Kwong)". informed by his sub-contractor, for example the bar 6 So your position, as I understand, your 6 fixers, that a particular bay is now ready for 7 7 understanding is that it's the sub-contractor, is it, inspection. So he or she telephones the MTR office and 8 that has to do that inspection, as opposed to Leighton 8 says, "Can we do an inspection this afternoon, 9 9 3 o'clock?" The MTR office on the telephone says, 10 10 A. We employed a specialist sub-contractor to do the "Yes". No record kept of that. They meet, and both are 11 reinforcement fixing works for the project. 11 carrying small electronic tablet-type items which are 12 Q. Yes. But let's suppose -- obviously, the 12 already pre-set. They look at the bay, they check 13 sub-contractor, as a matter of practicality, before he 13 everything, ding-dong, ding-dong, technical language, 14 starts doing his rebar fixing, certainly may take a look 14 okay, is used, all done, and they are happy, and so you 15 at those couplers on both sides. Presumably, if he 15 get the final tick or whatever the software allows. And 16 finds a problem, then you would expect him to refer that 16 on site, at that moment in time, the word is given, 17 problem back to Leighton and say --17 "Yes, let's proceed with the concrete, or preparation 18 18 A. Correct. for the concrete pour." 19 Q. You wouldn't expect him to put right any problems, any 19 Now, everybody goes away. There's been no 20 damage, any misaligned couplers, any missing couplers; 20 preparation of documents to set this up; it's all just 21 that was something that you should have referenced to 21 done by telephone, and the inspection is done, and 22 22 Leighton to put right? that's gone out and it's now settled in the hard disks, 23 A. If there was damage or something else, possibly a site 23 or whatever you call it, of various computers, 24 instruction would be issued, to rectify it or make good 24 including, for example, government, if that was the 25 25 in some way. case. Page 12 Page 10 Q. Okay. Moving on, paragraph 17 of your witness 1 What have I missed there? 1 2 2 A. Obviously, that's different to what the current contract statement -- you say that: 3 3 "In summary, the procedure required to install rebar is, the current system. 4 4 for the NAT stitch joints, as detailed in CHAIRMAN: I know. I'm talking about --5 5 paragraph 16.d, should have been as follows". A. The system you were describing is -- since we've been 6 And again you've set out the steps that ought to 6 dealing with these issues, we've been -- we have 7 7 have been taken to install the rebar for the NAT stitch reviewed our system, at Leighton, and how we can enhance 8 8 our systems to make sure this doesn't happen again. joints; do you see that? 9 A. Correct. 9 We've certainly spent a lot of time and effort looking 10 10 Q. Can I just confirm with you that at (e) you say: at how we can simplify our tools, how we can speed up "the bottom layers of reinforcement are inspected by 11 11 the process, how we can use digitalisation and tools 12 Leighton's engineers and the MTR's engineers". 12 going forward, and also to capture this information 13 And then at (i) you say: 13 realtime and actually -- so it doesn't cause any 14 14 "the top reinforcement is inspected by Leighton's unnecessary progress delays to the project. 15 15 engineers and MTR's engineers." That system is basically for us, it would be 16 What you don't say, but I assume you accept, is that 16 implemented in the third and fourth quarter in terms of 17 before those inspections take place, RISC forms should 17 that system you are describing. That would be the way 18 be issued? 18 forward for the industry, the construction industry in 19 A. Yes. 19 general. You've seen reports, Construction 2.0 with the 20 20 Hong Kong government, improving cost, time and quality, Q. As I think you are now aware, in relation to the 21 original defective stitch joints, no such RISC forms 21 and this is an area of that that we need to look at as 22 22 were issued? an industry as well, to go forward. So that is 23 23 A. That's my understanding, yes. something useful that will come out of, probably, this 24 CHAIRMAN: Sorry, on this question of RISC forms, I was 24 Inquiry, in terms of processes. 25 asking a few questions yesterday to try to understand CHAIRMAN: Thank you very much.

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- 1 MR PENNICOTT: Mr Speed, back to your witness statement,
- 2 please. At paragraph 19, you make reference to the fact
- 3 that the Gammon-Kaden Joint Venture used Lenton brand
- 4 couplers with a tapered thread. You then say, it seems
- 5 to me logically, that the rebar that was therefore
- 6 required and should have been used to connect the rebar
- 7 to the couplers installed on the Gammon side of the NSL
- 8 stitch joint 1111/1112 and EWL stitch joint.

9 If you then go to paragraph 29 of your witness 10 statement, you have made reference to some interface

11 meetings that we have looked at with at least two other

witnesses so far, one more to come at least, and then

13 you go on to say at paragraph 29:

12

14

17

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"T40 is a reference to rebar with a 40 millimetre

15 nominal bar diameter. The couplers installed in the NSL

16 stitch joint ... and EWL stitch joint were for rebar

under 40 millimetre nominal bar diameter. Therefore,

according to the minutes of the interface meeting, the

19 couplers on the [Gammon] side of the interface joints

20 should have been Lenton."

21 Then you say at paragraph 30:

22. "Leighton's records show that only BOSA (parallel)

23 threaded rebar was ordered for the NAT stitch joints.

There was no Lenton (tapered) threaded rebar ordered for

24 25 the initial construction of the NAT stitch joints."

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- 1 As I understand it, putting those three paragraphs 2 together, Mr Speed, you accept that responsibility for
- 3 not having ordered tapered threaded rebar to insert and
- 4 screw into the Lenton couplers is that of Leighton?
- 5 A. Lenton couplers should have been used at the stitch 6 joints, yes, correct.
- 7 Q. If Lenton couplers were used on the Gammon side of the
- 8 stitch joint, it was Leighton's responsibility to ensure
- that tapered threaded rebar was ordered and used to 9
- 10 insert into those couplers?
- 11 A. That's correct, with the assistance of our specialist
- 12 sub-contractor.
- 13 Q. What assistance would they be able to give you if they
- 14 didn't know that Lenton couplers were being used on that
- 15 side of the stitch joint?
- 16 A. I don't know whether or not they knew or not,
- 17 Mr Pennicott.
- 18 Q. On the assumption that they did not know until it was
- 19 too late, on one view, what assistance could they give
- 20 you?
- 21 A. The sub-contractor was responsible for calling off
- 22 materials required for execution of the works. We were 23 responsible for ordering those materials and the supply.
- 24 Q. All right. Could I ask you, please, to go to
- 25 paragraph 36 of your witness statement. Here, at the

- top of the page, that's CC60, you are dealing with the
- 2 defective work/design issue, and at paragraph 36 you 3 say:
- 4 "Leighton investigated reports of water seepage and 5 concrete cracking at two of the NAT stitch joints ...
 - for the purpose of identifying any defects and then
- 7 rectifying them", and so forth.
- 8 A Yes
- 9 Q. We know that that investigation took place largely
- 10 January/February 2018?
- 11 A. Yes.
- 12 Q. You are the general manager of Hong Kong operations.
- 13 Was this actually a matter that was reported to you at
- 14 the time?
- 15 A. It was. Probably I think sometime in January it got
- 16 reported to myself.
- 17 Q. So I assume, on that basis, that it was regarded by
- 18 those who reported it to you that this was
- 19 a sufficiently serious matter that you, the general
- 20 manager, should be advised of it?
- 21 A. Yes.
- 22 Q. And did indeed you share that view, that it was
- 23 a sufficiently serious matter and it was correct that
- 24 you should be advised of it?
- 25 A. Defects happen, you know, in construction projects,
- - across it. The quantum associated with the
 - 2 rectification works which perhaps at the start we didn't
 - 3 know the full estimate of the cost, but then it did rise
 - 4 in terms of making the repair, so the cost became
 - 5 substantial.
 - 6 Q. So do you think it was referred to you, as the general
 - 7 manager, because it was perceived to have potentially
 - 8 significant costs implications, as opposed to the fact
 - 9 that these were pretty serious defects in themselves,
 - that is rebar not connected to couplers?
 - 11 A. I think both, and also, you know, the focus on
 - 12 rectifying the defect so that obviously we can get
 - 13 trains running as soon as possible, the time required
 - 14 through the defects. So I think it encompassed those
 - 15 elements. But the primary focus was to rectify and get
 - 16 the works completed as soon as possible.
 - 17 Q. Right. Were you involved at all in the decision-making 18 process that must have taken place to do that, as we
 - 19 know, pretty quickly, just to get on with it and get it
 - 20 done --
 - 21 A. Yes, I was. Yes.
 - 22 Q. And so your advice was sought to see whether you agreed
 - with just getting on with it and getting it sorted as
 - 24 quickly as possible?
 - A. Correct.

23

Page 19 Page 17 Q. And you obviously agreed with that approach? MR PENNICOTT: Mr Speed, moving on to paragraph 39 of your 1 1 2 2 witness statement, under the heading, "Supervision, 3 COMMISSIONER HANSFORD: Can I ask -- actually, in your 3 inspection and records", you say there: 4 paragraph 37, in your final sentence, you say: 4 "Leighton has disclosed to the Commission the 5 "... the water seepage occurred as a result of the 5 organisational charts for Leighton ... The members of 6 failure of the installed permanent waterproofing 6 Leighton's construction engineering team who were 7 7 measures." involved in supervising the construction of the NAT 8 8 That was your understanding, was it? That was stitch joints are Henry Lai [who we have already heard 9 9 from] and Joe Tam [who we will be hearing from]." 10 10 MR PENNICOTT: Sorry, this is at paragraph 37, Mr Speed. I have asked this question to Mr Kitching, Mr Speed. 11 COMMISSIONER HANSFORD: Yes, paragraph 37, the final 11 I make no apologies for repeating it. To your 12 sentence: 12 understanding, who is responsible, in the Leighton 13 13 "... the water seepage occurred as a result of the organisation, and at what level, for ensuring that any 14 failure of the installed permanent waterproofing 14 particular area of the construction site, such as what 15 measures." 15 we've got here, is first of all sufficiently resourced? 16 Was that your understanding? 16 By that I mean sufficiently resourced with personnel. 17 17 MR PENNICOTT: It's the internal stitch joint. Whose decision is that? COMMISSIONER HANSFORD: This is the internal stitch joint, 18 18 A. I suppose, you know, to answer generally -- obviously, 19 19 I wasn't involved at the project from the early start, 20 A. I think that was the initial findings from it, the 20 but in a general situation that, you know, you have 21 21 initial findings. various different levels of management. You know, 22 COMMISSIONER HANSFORD: So the initial finding was that it 22 sometimes an engineer may come to his direct-line 23 was a waterproofing failure? 23 manager and says, "I'm struggling with the volume of 24 24 A. I think so, but very soon thereafter it became apparent work", et cetera. That manager would then review. If 25 that -- the issue with the couplers. 25 he was in agreement, he would then rise up through the Page 18 Page 20 1 COMMISSIONER HANSFORD: Was that in addition to the 1 different levels to agree. 2 waterproof failure or rather than the waterproofing --2 In terms of escalation, our project directors would 3 3 A. Rather than the waterproofing. liaise with the operational managers and also then with 4 MR PENNICOTT: Sir, this is a matter that I am going to 4 our HR managers, general manager, to review what 5 5 discuss with Mr Holden. resources can be provided or recruited for the job. So 6 COMMISSIONER HANSFORD: That's fine. 6 it's fairly standard. 7 MR PENNICOTT: Because he was involved in the 7 Q. Because we have heard some evidence, certainly from 8 8 Henry Lai and another witness perhaps, that they were investigations. 9 A. Yes, he was. 9 overworked, overstretched, and this was one of the 10 COMMISSIONER HANSFORD: That's absolutely fine, but I was 10 reasons being put forward for the non-issuing and 11 just checking Mr Speed's understanding. 11 submission of the RISC forms, and that's why I'm asking 12 A. That was when it was originally brought that it was 12 the question as to --13 a water seepage issue coming to the project, and then it 13 A. I suppose, since I've been the general manager, I'm not 14 transpired into more than that. 14 aware of any restrictions on -- if people have required COMMISSIONER HANSFORD: Yes. Thank you. 15 15 staff to do anything, structurally there's no MR PENNICOTT: Indeed I think -- would this be fair, 16 16 restrictions in place on that. 17 Mr Speed -- your paragraph 37 is really reporting what 17 Q. But I think what you are saying is I suppose it depends 18 Mr Holden told you? 18 on the acuteness of the problem. If it's very 19 A. It is, yes. 19 significant, then it could find its way all the way up 20 MR PENNICOTT: Right. So I was going to go to the source, 20 to the project director or the operations manager? 21 as it were, Mr Holden. 21 A. Yes, for sure, we're recruiting, yes. 22 COMMISSIONER HANSFORD: I understand that, of course, but 22 Q. For recruiting, yes, to say, "We actually need another 23 I wanted to check Mr Speed's understanding of what -- at 23 engineer on this area of the site and we need someone 24 the time. 24 quickly"? 25 A. Yes, sure. A. Yes, and our operation managers across our business will

| 1 2 | Page 21 | | Page 23 |
|--|--|---|--|
| | re-allocate resources to the needs required. We have | 1 | CHAIRMAN: And could I ask just one thing: as far as fairly |
| | a lot of resource in the business. | 2 | new, young engineers are concerned, is there any formal |
| 3 | CHAIRMAN: Would you agree this is a psychological | 3 | training on, for example, what their inspections should |
| 4 | question more than an engineering question that in | 4 | seek to reveal and how they should go about the work of |
| 5 | most professional organisations, such as the one that | 5 | inspecting? |
| 6 | you are managing at the moment, the professional | 6 | A. I suppose, when we talk about training obviously, |
| 7 | officers in it are loath perhaps to go to their | 7 | Leighton have comprehensive training programmes. We |
| 8 | superiors and say, "I can't manage"? It's a sign of | 8 | have training in the classroom, we have training on site |
| 9 | weakness and none of us like to give that sign of | 9 | with different people. You know, I am aware that there |
| 10 | weakness. I'm not suggesting that's a fault, by the | 10 | was quality management training at the project. I don't |
| 11 | way. I'm just saying one of the factors that sometimes | 11 | know the specifics of whether or not you know, the |
| 12 | you have to take into account is just how people behave. | 12 | specific training. But I am aware there was training |
| 13 | A. I can't really answer the question. | 13 | for these individuals. |
| 14 | CHAIRMAN: No. | 14 | MR PENNICOTT: Indeed, we have seen the process by which |
| 15 | A. It's sort of vague, you know, for that. There is human | 15 | Leighton takes on graduate engineers and then they |
| 16 | nature. But we are fortunate in Hong Kong, with our | 16 | become engineers and senior engineers as they presumably |
| 17 | management team, with the vicinity of our projects, to | 17 | acquire experience. |
| 18 | get to know them well, to get to know the people, and | 18 | A. Yes. |
| 19 | also people are busy on projects but also to provide | 19 | Q. I mean, when a graduate engineer joins you, is that for |
| 20 | resource as required, to address needs from time to | 20 | a fixed period as a graduate engineer? |
| 21 | time. You know, if one project gets busy, we may look | 21 | A. We have some graduates who come to us straight from |
| 22 | at whatever resourcing we can provide for that. It's | 22 | college, and some may join a few years later. We do |
| 23 | how the industry works. | 23 | have a specific graduate training programme, I can't |
| 24 | CHAIRMAN: That answers the question, because what you are | 24 | remember the exact numbers, but over the last few years |
| 25 | saying is yes, if that sort of reluctance to express | 25 | it's been 40 or 50 graduates per year. I take part in |
| | Page 22 | | Page 24 |
| 1 | a sign of incapability to deal with the pressures should | 1 | some of the leadership training days and we have |
| 2 | be there, you are dealing with people on a day-by-day | 2 | structured programmes around our graduates, to help them |
| 3 | basis, you move where you feel resources are needed, so | 3 | through. And also we do rotation with different |
| 4 | you don't have to deal with that problem openly because | 4 | consultancies in respect of design as well. So there |
| 5 | you are tackling it by making sure resources are | 5 | are processes, you know, how we train the graduates. |
| 6 | available. | 6 | Q. And the graduate programme will last a couple of years |
| | A. You know, Hong Kong is a very small place, so we can | 7 | and a second time of the transfer of the second of the sec |
| 7 | | | or something of that nature? |
| 7 8 | actually we know a lot what is happening from | 8 | A. I'm not sure if it's two or three years but it's that |
| | actually we know a lot what is happening from a staffing perspective as well. You know, if some of | 8 9 | _ |
| 8 | a staffing perspective as well. You know, if some of our projects are coming to an end and there's a big | | A. I'm not sure if it's two or three years but it's that sort of order.COMMISSIONER HANSFORD: Do they proceed to become senior |
| 8 9 10 11 | a staffing perspective as well. You know, if some of our projects are coming to an end and there's a big ramp-up for completion, we will look at what resources | 9 10 11 | A. I'm not sure if it's two or three years but it's that sort of order. COMMISSIONER HANSFORD: Do they proceed to become senior engineers through merit or does that happen through the |
| 8 9 10 11 12 | a staffing perspective as well. You know, if some of our projects are coming to an end and there's a big ramp-up for completion, we will look at what resources that can be transferred to those projects to help it | 9 10 | A. I'm not sure if it's two or three years but it's that sort of order.COMMISSIONER HANSFORD: Do they proceed to become senior engineers through merit or does that happen through the length of time they've been a graduate engineer? |
| 8 9 10 11 | a staffing perspective as well. You know, if some of our projects are coming to an end and there's a big ramp-up for completion, we will look at what resources that can be transferred to those projects to help it finish, because we understand the needs and requirements | 9 10 11 | A. I'm not sure if it's two or three years but it's that sort of order. COMMISSIONER HANSFORD: Do they proceed to become senior engineers through merit or does that happen through the length of time they've been a graduate engineer? A. I think it's obviously experience is key and also |
| 8 9 10 11 12 13 14 | a staffing perspective as well. You know, if some of our projects are coming to an end and there's a big ramp-up for completion, we will look at what resources that can be transferred to those projects to help it finish, because we understand the needs and requirements of that, at those times. | 9 10 11 12 13 14 | A. I'm not sure if it's two or three years but it's that sort of order. COMMISSIONER HANSFORD: Do they proceed to become senior engineers through merit or does that happen through the length of time they've been a graduate engineer? A. I think it's obviously experience is key and also years of service is also those considerations. So |
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| 8 9 10 11 12 13 14 15 16 | a staffing perspective as well. You know, if some of our projects are coming to an end and there's a big ramp-up for completion, we will look at what resources that can be transferred to those projects to help it finish, because we understand the needs and requirements of that, at those times. But there's no specific answer specifically, you know. | 9 10 11 12 13 14 15 16 | A. I'm not sure if it's two or three years but it's that sort of order. COMMISSIONER HANSFORD: Do they proceed to become senior engineers through merit or does that happen through the length of time they've been a graduate engineer? A. I think it's obviously experience is key and also years of service is also those considerations. So both of those are factors. You know, you won't be a senior engineer after two months, even if |
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Page 27 Page 25 1 Mr Speed, you say -- and this is still in the section 1 which is ... 2 2 that's dealing with supervision, inspection and records: Q. But that's no more than saying, well, the concrete is 3 3 there, therefore it must have been -- the rebar must "Leighton has reviewed its records relating to the 4 have been inspected, the pre-pour check must have been 4 supervision and inspection of the rebar fixing and 5 done, because the concrete is there. I mean, there's 5 concreting works for the NAT stitch joints. Leighton 6 has found that: 6 nothing in the diaries, is there --7 7 A. My understanding is that the formal inspections took (a) physical inspections took place regarding the 8 8 inspection and approval process for the NAT stitch place across the project. 9 9 Q. And we've got a lot of people looking at site diaries 10 10 and photographs and so forth, but they don't actually In relation to that, you simply rely on Mr Lai's 11 witness statement, as I understand it; is that right? 11 show you, they don't record the fact, that the 12 12 inspections, whether informal or formal, have taken A. That's correct, yes. 13 13 place? Q. Then you say: 14 14 "(b) while RISC forms were generated for pre-pour A. I have to review, yes. 15 15 CHAIRMAN: Could you just tell, for my assistance -- site and as-built survey, no RISC forms were generated for 16 diaries, can you tell me something about them? What 16 the rebar fixing and pre-pour check inspections for the 17 17 role do they play? Who maintains them? original construction works". 18 A. From my understanding, MTRC generally prepares the site 18 Which is a point we've already talked about. Then 19 19 you say this: diaries. They would provide them to ourselves for 20 20 "(c) site diary entries ... record the rebar fixing, review and then they would be signed and passed back. 21 21 pre-pour work and the concrete pours for the original That's the normal sort of process. 22 22 CHAIRMAN: Okay. So MTR, they commence the diary, and who construction work on the NAT stitch joints". 23 Just holding that thought with us, could I ask you, 23 puts material into it? It's MTR staff, is it? 24 24 please, to look at paragraph 16(c) of your sixth witness A. My understanding, it's MTRC. 25 statement, which will be at page CC6/3754, where you CHAIRMAN: So they make entries related to concrete pours, Page 26 Page 28 expand upon, a little bit at least, the sentence we have 1 inspections maybe, if that's -- or whatever's happening 1 2 just looked at, and you say this: 2 of importance, and sets out a chronology of events on 3 3 "other documentary records" -- and you repeat this site? 4 4 paragraph a number of times in this witness statement --A. Correct. Yes, correct, on a daily basis. 5 5 "evidence that Leighton and MTR supervised the rebar CHAIRMAN: And that is shown to the contractor, in your case Leighton, and there would be countersignatures or 6 fixing and pre-pour works at the NAT. For example, site 6 7 diary entries record all of the rebar fixing, pre-pour 7 something of that --8 work and the concrete pours for the NAT. These are 8 A. Something of that order, yes. 9 consistent [you say] with, and support, the conclusion 9 CHAIRMAN: Thank you. 10 10 COMMISSIONER HANSFORD: So there's no requirement then that all formal inspections took place and that Leighton 11 and MTR supervised and approved the works and authorised 11 Mr Speed, for Leighton engineers or Leighton foremen to 12 the pouring of concrete." 12 produce their own diaries? 13 Can I first of all suggest to you -- first of all, 13 A. I'm not aware of a contractual requirement for their own 14 14 can I ask you: have you looked at the site diaries at personal diaries. 15 15 COMMISSIONER HANSFORD: I meant the company requires. 16 A. I've seen site diaries, yes. 16 A. We don't have a company requirement for all staff to 17 Q. It is right that they record that rebar work is being 17 keep all diaries, no. 18 done and that concrete pouring is being done, but they 18 COMMISSIONER HANSFORD: Right. 19 do not, do they, in any sense, make any record of the 19 MR PENNICOTT: Sir, I wasn't proposing to go into the matter 20 20 fact that an inspection has taken place, whether formal with Mr Speed, but of course one mustn't lose sight of 21 or informal? 21 the acceptance letters and the log book, which is 22 A. I suppose if you look at, you know, concrete pouring, to 22 a potentially important matter. 23 23 COMMISSIONER HANSFORD: Yes. get to concrete pouring would mean that you would have 24 24 MR PENNICOTT: We can put up on the screen for you, sir, had to go beyond the hold point for the reinforcement 25 fixing, and by definition, the approval had been given, 25 since you've asked the question, CC6/3866.19.

| | Page 29 | | Page 31 |
|--|--|--|---|
| 1 | I understand this might be a typical example of the site | 1 | sentence you say this: |
| 2 | diary. Mr Speed can have a look at it as well. | 2 | "Leighton" |
| 3 | I don't know what date that was 30 March 2016, | 3 | And you've got a footnote there to qualify what you |
| 4 | the top right-hand corner. It's recorded "labour and | 4 | mean by "Leighton": |
| 5 | plant", and if you go to the right, please sorry, the | 5 | "This refers to the knowledge of Leighton's |
| 6 | other way, left it's a general we can see at | 6 | management on the project and Leighton's senior |
| 7 | number 7, it's headed "NAT". | 7 | management." |
| 8 | If we scroll down, somebody has helpfully outlined | 8 | "Leighton was not aware that RISC forms had not been |
| 9 | in red perhaps the relevant part of this particular | 9 | completed for the rebar fixing check and pre-pour check |
| 10 | diary on this day, "Rebar fixing of base slab at bay 1 | 10 | for original construction of the NAT stitch joints." |
| 11 | for NSL Tunnel (Wing Kwong)", and one sees that, and | 11 | Now, when you say Leighton's management on the |
| 12 | references also to concrete being poured. | 12 | project and Leighton's senior management, who precisely |
| 13 | COMMISSIONER HANSFORD: But the diaries don't record | 13 | are you referring to? |
| 14 | inspections? | 14 | A. So I suppose, if I take Leighton's senior management, |
| 15 | MR PENNICOTT: We have not been able to find any diary that | 15 | I refer to our sort of corporate management, you know, |
| 16 | says "rebar inspected by X" or Y, no, sir. | 16 | general manager, operation managers, et cetera. And in |
| 17 | COMMISSIONER HANSFORD: Or hold points passed? | 17 | terms of project manager, on the project management, the |
| 18 | MR PENNICOTT: No, sir, as far as I'm aware. I don't | 18 | project director, you know, in terms of management |
| 19 | suppose we've looked at every single diary. | 19 | I'm not sure how far that goes down, actually, but the |
| 20 | COMMISSIONER HANSFORD: No, I just wondered if, from what | 20 | project director for sure. |
| 21 | you have seen, that was the case. | 21 | Q. Right. So let me put it slightly differently. The |
| 22 | MR PENNICOTT: In many ways, unfortunately not. | 22 | engineer on the ground, so far as the NAT is concerned, |
| 23 | COMMISSIONER HANSFORD: Okay. | 23 | is Henry Lai? |
| 24 | CHAIRMAN: Even though it doesn't confirm actual | 24 | A. Correct. |
| 25 | inspections, it confirms that MTR, and presumably if | 25 | Q. We know that he issued very few RISC forms, and |
| | Page 30 | | Dana 22 |
| | ruge 30 | | Page 32 |
| 1 | Leighton countersigns, are aware of day-by-day | 1 | certainly no RISC forms in relation to the original |
| 1 2 | | 1 2 | · |
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| 1 | Page 33 | | Page 35 |
|--|--|---|--|
| | WhatsApp messages was effectively a work around the | 1 | someone like Jim Wong attended, then it should also be |
| 2 | system, wasn't it? Rather than using the system, | 2 | distributed and communicated in terms of the area of |
| 3 | a workaround had been found? | 3 | management. |
| 4 | A. I think the system was cumbersome and I think they found | 4 | Q. Okay. Mr Speed, in paragraphs 58 through to 67 of your |
| 5 | some technology to work around. Obviously, it's not | 5 | witness statement, you deal with non-compliance issues |
| 6 | a structured process, but that's how it was operating on | 6 | at the shunt neck joint; do you see that? |
| 7 | the project, you know, between us and MTRC. | 7 | A. Yes. |
| 8 | COMMISSIONER HANSFORD: But it wasn't I was going to use | 8 | Q. In relation to the questions that I've been discussing |
| 9 | the word "foolproof" but it wasn't secure? | 9 | with you regarding the RISC form and the ordering of the |
| 10 | A. No, correct, it wasn't secure. But as I said earlier, | 10 | tapered threaded rebar, I assume that your answers would |
| 11 | we are now basically establishing the new tools and the | 11 | be the same in relation to the shunt neck as they were |
| 12 | mobile platforms so that it can be done at the face, can | 12 | in relation to the stitch joints? |
| 13 | be uploaded. So that's where we need to head to. | 13 | A. Correct. |
| 14 | COMMISSIONER HANSFORD: Indeed. | 14 | Q. However, can I just ask you about this. In paragraph 60 |
| 15 | MR PENNICOTT: Mr Speed, can I go on to paragraph 46 of your | 15 | you say: |
| 16 | witness statement, a slightly different topic, but it's | 16 | "On 15 February, [Gammon] confirmed to Leighton |
| 17 | another "what should have happened" question, I'm | 17 | that a construction joint should be built at the shunt |
| 18 | afraid. | 18 | neck joint" |
| 19 | A. Okay. | 19 | Do you see that, that a construction joint should be |
| 20 | Q. You make reference there, again, to Mr Henry Lai being | 20 | built? |
| 21 | the engineer responsible for the ordering of the rebar | 21 | A. Yes. |
| 22 | and couplers, and so forth. Then you say, correctly, it | 22 | Q. Then you make reference to a request for information |
| 23 | seems to me: | 23 | document, which I'm going to be discussing with Mr Tam |
| 24 | "It appears that certain members of Leighton's | 24 | later. Then you say at 62: |
| 25 | construction engineering team were aware that | 25 | "[Gammon] built a construction joint using couplers |
| | Page 34 | | Page 36 |
| 1 | Gammon-Kaden was using Lenton brand couplers as | 1 | on their side of the interface, and did not leave |
| 2 | a result of attending interface meetings with | 2 | a recess for the construction of a stitch joint. In |
| 3 | [Gammon-Kaden]. However, this information was not | 3 | that context, and following MTR's direction, Leighton |
| 4 | communicated to Henry Lai." | 4 | should have built a construction joint with continuous |
| 5 | Mr Speed, can you help us: what should the persons, | 5 | rebar connection using the couplers installed by |
| 6 | the people, who attended those interface meetings, have | 6 | |
| _ | done to communicate to these that was ded to be any subst | | [Gammon]." |
| 7 | done to communicate to those that needed to know what | 7 | [Gammon]." Do you see that? |
| 7 8 | was discussed at those meetings? | | Do you see that? A. Yes. |
| 8 9 | was discussed at those meetings?A. It could be done in a number of ways. Obviously, | 7 | Do you see that? A. Yes. Q. Then, at paragraph 80, you say: |
| 8 9 10 | was discussed at those meetings? A. It could be done in a number of ways. Obviously, there's minutes from the interface meeting. Within our | 7 8 9 10 | Do you see that? A. Yes. Q. Then, at paragraph 80, you say: "Atkins was the permanent works designer of the SNJ |
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| 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | was discussed at those meetings? A. It could be done in a number of ways. Obviously, there's minutes from the interface meeting. Within our systems, we have a document management system where, if you are the manager of an area, you would copy that to the relevant persons part of your team. That could be one way. The second way could be verbal communication as well. There's a few ways it could have been done. In this case, you know, it appears that the information wasn't communicated to Henry. Q. Okay. And unless there was some form of specific delegation, would you expect the most senior person at those meetings to be responsible for passing that information on, in the way you've described? A. There may be a number of similar level at the meeting | 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Do you see that? A. Yes. Q. Then, at paragraph 80, you say: "Atkins was the permanent works designer of the SNJ for both contract 1111 and contract 1112. There was a mismatch between the detailing of the SNJ under contract 1111 and contract 1112. It appears as though Atkins deleted the requirement for the stitch joint on the approved drawings for contract 1111 but did not update the same on the drawings for contract 1112." Can I ask you to confirm you are not making a criticism of Atkins there, are you, Mr Speed, or perhaps you are? I'm not sure. A. I think we are just stating the fact, actually. We're not Q. So you are not seeking to criticise Atkins for |

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their direct managers to go through it and to review.

expect it to be recorded in writing?

Q. Sometimes, sometimes not. Okay.

A. Sometimes, sometimes not.

Q. So the answer to my question is you wouldn't necessarily

Page 37 Page 39 knew at that moment, until the clarification. 1 Just so the Commission is aware of what you're 1 2 Q. Well, agreed. From the time of the RFI back in May 2 talking about when you use the words "Just Culture", 3 3 2016, as you seem to acknowledge, Leighton knew that it could we look at CC10/6545.5, please. 4 4 We've been told -- it's not on the transcript but was a construction joint that needed to be built, not 5 5 a stitch joint? just in an email from your solicitors, Mr Speed -- that 6 A. Correct. 6 this is a document that, as it were, Mr Lai was taken 7 7 through during this internal appraisal, as I call it. Q. Okay. So whether or not the drawings concerned were 8 updated, it was known that it was a construction joint 8 Do you see that? 9 that had to be built? 9 A. Yes. 10 10 A. It would obviously help if drawings are updated Q. This is what you're referring to when you say the "Just 11 regularly, so it ought to have been communicated to all 11 Culture" process? 12 the teams as well. 12 A. Yes. 13 Q. All right. 13 Q. These are the sorts of questions that, therefore, Mr Lai 14 14 Just a couple of other topics. Again, it's really would have been asked? 15 15 A. I wasn't at the "Just Culture" discussion -a question of whether you know certain general 16 procedures concerned with this topic, Mr Speed. 16 Q. No, but you would have expected --17 Mr Henry Lai has told us that following the discovery of 17 A. -- but this is the model, yes. 18 the defects in the stitch joint, he went through what he 18 Q. What you would have expected him to have been asked? A. Yes. 19 described as an internal survey or appraisal. And 19 20 Mr Kitching told us that following that survey or 20 Q. If we scroll down to the bottom, please -- the options 21 appraisal, Mr Lai was put on what Mr Kitching described 21 at the bottom seem to be five. The worst it gets, you 2.2. 22. will be terminated, and the better, "I've learned". as an improvement scheme. 23 Are you familiar with the process of these internal 23 We have been told, as I say, by Mr Kitching that 24 appraisals and putting people on improvement schemes, 24 an improvement scheme was adopted for Mr Lai, so 25 Mr Speed? 25 probably that's somewhere around about, "I need Page 38 Page 40 A. I think in terms of our business, we have a "Just 1 training" or "I need coaching". 1 2 Culture" model that we follow as a business, so that we 2 A. Yes, in that sort of order. 3 3 treat people fairly and we go through that model. If we Q. All right. 4 4 COMMISSIONER HANSFORD: Would someone going through this have, you know, for example, a safety issue, we would 5 process affect their promotion path? 5 review that model to see whether or not it was 6 A. Yes, it's possible. I think you are referring to the 6 unintentional and whether or not someone needs 7 promotion of Henry Lai from engineer to senior engineer, 7 additional training or whatever. That's the sort of 8 8 process we would go through. COMMISSIONER HANSFORD: Generally actually, but --9 Q. All right. What type of circumstances would give rise 9 10 A. Yes, of course. It would be taken into consideration, 10 to that sort of appraisal survey taking place? 11 11 A. As I said, maybe an example would be a safety issue --12 MR PENNICOTT: Sir, just -- this is not for you, Mr Speed, 12 a safety issue could be an example of that, just to 13 13 review that to see whether or not -- you know, where the but you can obviously listen. Sir, we've been informed 14 by those instructing Mr Shieh that there is or there are 14 action should lie, what's required. 15 no documents relating to Mr Lai's survey and appraisal, 15 Q. Would you expect that appraisal survey process to be 16 and given what Mr Speed has just said I'm not proposing 16 recorded in writing so that there was some note of it on 17 to press that any further. So it will rest where it is. 17 the file, as it were? 18 18 CHAIRMAN: Yes. A. I think, from what I understand, this was done 19 informally. Often, you know, we are not there to create 19 COMMISSIONER HANSFORD: Yes. 20 MR PENNICOTT: Next, Mr Speed, in your sixth witness 20 long reports. Some of these things are sitting with

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A. Yes.

Q. At paragraph 60 you say:

statement, that's the second one for the purposes of

this hearing, at page 3761, you have a section that

deals with "Testing of rebar"; do you see that?

Page 43 Page 41 "Leighton has reviewed its records and found that 1 else knocks it back. 1 2 2 a small percentage (approximately 7 per cent) of rebar So, in May 2018, you sent the ball over MTR's way. 3 3 On 31 December 2018, it came back your way. And on delivered to site was not tested by a HOKLAS certified 4 4 11 February 2019, you send it back to them. And here we laboratory." 5 5 are in June. Then you give some figures. Presumably, that's 6 an exercise that somebody has carried out for you, 6 A. I think, from what I understand, just speaking briefly 7 7 with my team earlier, we now have a way forward on this Mr Speed, rather than your exercise? 8 8 A. Yes, that's a reconciliation of the actual HOKLAS to resolve it, just come in. 9 certified testing. 9 COMMISSIONER HANSFORD: Ah. 10 10 A. I don't know the details but I think there's Q. Okay. something -- a proposed way forward now, to rectify. 11 A. But, as we say in the first paragraph, 100 per cent of 11 12 the testing by the manufacturers was carried out. 12 COMMISSIONER HANSFORD: All right. We'll hear that from 13 13 Q. Yes. I don't know whether you can help with this, but somebody, presumably. 14 14 A. Yes, perhaps Will Holden who's coming along next. from my reading of the various witness statements that 15 15 COMMISSIONER HANSFORD: We will ask Mr Holden. Leighton have submitted to the Commission, we already 16 MR PENNICOTT: Sir, if it has been taken forward and if 16 know that Henry Lai told us that, in relation to the 17 17 there is documentation, then I would readily expect that NAT, there were 159 batches of rebar, of which 103 were 18 18 documentation to be disclosed either by Leighton or by tested and 56 were not. Mr Alan Yeung has told us -- or 19 19 will tell us, I imagine, if his witness statement is MTR, and/or, to the extent they are involved, the 20 correct -- that two batches were not tested on the SAT. 20 government. I'm sure somebody will disclose the 21 21 And Mr Ronald Leung will tell us that some batches of documents to us. 2.2. 22 rebar were not tested, but he doesn't give a figure. COMMISSIONER HANSFORD: I merely observe that the gap 23 Would your 7 per cent figure, do you know, Mr Speed, 23 between the ball coming from one direction to the other 24 24 as it were, take into account all of these points? seems to be rather long. 25 A. It takes into account -- this is the overall number for 25 MR PENNICOTT: Yes, sir. Page 42 Page 44 1 the project. 1 A. Yes. 2 Q. So on that basis, it probably does take into account --2 MR PENNICOTT: Thank you very much. Thanks, Mr Speed. 3 3 A. It does. It's a small percentage. WITNESS: Thank you. 4 Q. So that is the whole project -- you are not just talking 4 Cross-examination by MR TSOI 5 about the NAT, SAT and the HHS -- you are talking about 5 MR TSOI: Mr Speed, I act for the rebar fixers, Wing 6 literally the whole project? 6 & Kwong. I just have one issue to clarify with you. 7 A. The whole project, yes. 7 Can I take you to paragraph 26 of your fifth witness 8 Q. I think lastly, Mr Speed: do you know what the current 8 statement, which we can find at page CC59. There you 9 position is with regard to the submission of as-built 9 10 10 drawings on contract 1112? "The use of couplers for the construction of the NAT 11 A. My teams are working on it, but you would have to go 11 stitch joints is detailed on the working drawings. The 12 through the details with them. You know, I don't know 12 drawings only indicated the diameter and spacing of the 13 the current status. 13 rebar but did not indicate the requirement to suit the 14 O. You don't know the current status? 14 type of couplers that should be used." 15 15 Do you see that? MR PENNICOTT: All right. Thank you very much. 16 16 A. I see that, yes. 17 Sir, I have no further questions. 17 Q. I think you repeat the same thing for the shunt neck 18 COMMISSIONER HANSFORD: I have one at this point, if I may 18 joint at paragraph 71. Do you see that? 19 In the first witness statement, your paragraph 90, 19 A. Yes. 20 20 relates to rectification works proposals on the shunt Q. In answering the questions to my learned senior, you neck joint. 21 21 said that when ordering the materials, Leighton 22 A. Yes. 22 engineers would need assistance from the sub-contractor. 23 COMMISSIONER HANSFORD: I think in paragraph 90 you 23 Do you remember answering that? 24 effectively describe to us a game of tennis, where one 24 A. Correct. 25 person knocks the ball over the net and then somebody 25 Q. One of the answers you gave was this:

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- 1 "The sub-contractor was responsible for calling off
- 2 materials required for execution of the works. We were
- 3 responsible for ordering those materials and the
- 4 supply."
- 5 Do you remember answering that?
- 6 A. I do, yes.
- 7 Q. Now, do you or do you not know -- and if you do not
- 8 know, please do tell us -- that when the rebar fixers
- 9 request for the rebars or the couplers, they do not
- specify the type of threads for the rebars or the
- 11 couplers?
- 12 A. Can you repeat your question, sorry?
- 13 Q. The rebar fixers, when they request for materials from
- Leighton to do the rebar works, they do not specify the
- exact type of couplers or the rebars. So the threads of
- the rebar, so whether it was a Lenton type or the BOSA
- type, they don't in fact say that when they request the
- materials. Do you know that or do you not know that?
- 19 A. They were Lenton couplers at the location.
- 20 Q. That's right, but when the rebar fixers make the request
- 21 to Leighton for materials --
- 22 A. You say they didn't request the Lenton threaded rebar?
- Q. They do not need to, because they don't. They do not
- need to say, "We need Lenton rebars"?
- A. No, but they do, because they are Lenton couplers.

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- 1 Q. I think you are slightly confused. As you say, your
- 2 engineers, Leighton themselves, do not know what type of
- 3 couplers and rebars were to be used, as you say in
- 4 paragraph 26, "The drawings only indicated the diameter
- 5 and spacing of the rebar"; do you see that?
- 6 A. Yes, I see that.
- 7 Q. So the drawings do not show the type of couplers used?
- 8 A. But Wing & Kwong were the specialist steel fixer
 - responsible for the execution of the works, which
- included the connection to the Lenton couplers.
- 11 Q. No, I'm talking about the ordering of the materials.
- So, when it was ordered, according to the working
- drawings Leighton had, Leighton did not know the type of
- couplers or the type of the rebars in terms of the
- 15 threads?

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- 16 A. Can you say that again, please?
- 17 Q. In your paragraph 26, as you say there, the drawings
- that the engineers were using, the engineers of
- 19 Leighton, "The drawings only indicated the diameter and
- 20 the spacing of the rebar but did not indicate the
- 21 requirement to suit the type of couplers that should be
- used"; do you see that?
- A. That's correct, yes.
- 24 Q. So that's the working drawing that Leighton was working 24
- with?

- A. That's the drawings, yes.
- 2 Q. So your suggestion is that the Leighton engineer would
- 3 not know from the working drawing about the need to use
- 4 tapered rebars?
- 5 A. But the calling off of material isn't purely a function
- 6 of drawings. It's a function of the site inspection, as
- 7 you're aware.
- 8 Q. Exactly. That's what I'm asking. You say the Leighton
 - engineer would not know about the tapered rebars; is
- 10 that right?
- A. No, I didn't say that. I was referring to your role as
- 12 a specialist sub-contractor.
- 13 Q. No, I'm talking about your paragraph 26, because you are
- saying Leighton would be using these working drawings.
- Do you see that?
- 16 A. What I'm saying -- when Wing & Kwong, our specialist
- steel fixing contractor, calls off materials, they would
- be going to the site, they would be doing inspection,
- 19 they would be doing the measuring. That is your role as
- 20 the specialist steel fixing contractor.
- 21 Q. Yes, but please answer my question. At paragraph 26,
- aren't you saying to the Commission that the Leighton
 - engineer looking at the working drawings would not know
- the type of couplers or the type of the rebars that
 - would be used, in terms of the threads? That's what you

- are saying; right?
- 2 A. No, I'm saying that the working drawings didn't show the
- 3 type of coupler.
- 4 Q. Right, and those were the working drawings used by the
- 5 engineer of Leighton?
- 6 A. They are the working drawings, yes.
- 7 Q. Used by Leighton engineers; yes?
- 8 A. They are the working drawings used by the project.
- 9 Q. My question is -- if you do not know, please say you do
- not know -- when in fact the rebar fixers make an order
- 11 request to Leighton, to your engineer, they do not
- specify the type of threads for the rebars or the
- couplers? Do you know that or do you not know that?
- A. I am the general manager of the business. I don't know
 how you ordered the materials which are required for
- 16 your works.
- 17 Q. That's what I'm trying to get at.
- 18 A. I don't know the detail.
- 19 Q. So when you answered my learned senior that the
- sub-contractor was responsible for calling off the
- 21 materials, you do not in fact know --
- A. No, I do know that. The sub-contractor is responsiblefor calling off the materials.
- Q. They are, I agree with that, because they make the

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|--|--|--|--|
| | not in fact know, when they ordered, they do not specify | 1 | Q. Yes. Now, the problem we have here is that we have seen |
| 2 | the threads of the rebars or the couplers. You don't | 2 | the drawings. Now, the drawings do not specify the |
| 3 | know that? | 3 | brand or the particular type of rebars which should be |
| 4 | A. I've not seen your order form, no, but I've read the | 4 | used for contract 1111, regarding the interface. |
| 5 | sub-contract. | 5 | But we have also seen what we call the material |
| 6 | MR TSOI: Thank you very much. | 6 | sheets provided by Wing & Kwong, specifying, for |
| 7 | WITNESS: Thank you. | 7 | example, the measurements, the quantity required. |
| 8 | MR BOULDING: No questions for this witness. Thank you, | 8 | Again, those material sheets do not specify the brand |
| 9 | sir. | 9 | and the type of the rebars which would need to be used |
| 10 | CHAIRMAN: Thank you. | 10 | for contract 1111. |
| 11 | MR KHAW: Mr Chairman, I have some questions, but I see the | : 11 | So the problem is this. When we are talking about |
| 12 | time. Shall we have the morning break first? | 12 | the brand and particular type now we know it's Lenton |
| 13 | CHAIRMAN: Yes, certainly. 15 minutes. | 13 | couplers right, the particular type of couplers that |
| 14 | Mr Speed, you are aware of the restriction on | 14 | would need to be used for contract 1111. Obviously, |
| 15 | a witness who is in the middle of giving his evidence? | 15 | that was discussed in the interface meetings; right? |
| 16 | WITNESS: Sure. | 16 | You agree? |
| 17 | CHAIRMAN: Thank you. 15 minutes. | 17 | A. Yes. |
| 18 | (11.21 am) | 18 | Q. I suppose the specialist sub-contractor was not required |
| 19 | (A short adjournment) | 19 | to attend the interface meetings? |
| 20 | (11.41 am) | 20 | A. I'm not sure of all the attendees of those meetings. |
| 21 | Cross-examination by MR KHAW | 21 | Q. Right. According to the records, the sub-contractor was |
| 22 | MR KHAW: Mr Speed, good morning. I represent the | 22 | not required to attend those meetings. |
| 23 | government. Just a few matters to discuss with you. | 23 | Are you aware that then, after the interface |
| 24 | To follow up on what counsel for Wing & Kwong just | 24 | meetings, there was also a QAS actually specifying the |
| 25 | asked you before the morning break regarding the calling | 25 | Lenton couplers that would need to be used for |
| | Page 50 | | Page 52 |
| 1 | of materials and also the question as to who was | 1 | contract 1111? Are you aware of that? |
| 2 | responsible for ordering the materials just correct | 2 | A. I've not seen that document, no. |
| 3 | me if I'm wrong, you agree with Mr Pennicott that | _ | |
| 1 | | 3 | CHAIRMAN: Sorry, QAS again? Quantity |
| 4 | Leighton was responsible for ordering the materials; | 3 4 | CHAIRMAN: Sorry, QAS again? Quantity MR KHAW: Quality assurance scheme. |
| | Leighton was responsible for ordering the materials; correct? | | |
| 4 | correct? A. Yes. | 4 | MR KHAW: Quality assurance scheme. CHAIRMAN: Thank you. That's the quality assurance scheme. MR KHAW: So what I'm interested in is, since Leighton |
| 4 5 | correct? A. Yes. Q. But what you have just told us is that you would | 4 5 | MR KHAW: Quality assurance scheme. CHAIRMAN: Thank you. That's the quality assurance scheme. MR KHAW: So what I'm interested in is, since Leighton attended the interface meetings where the specific brand |
| 4 5 6 | correct? A. Yes. Q. But what you have just told us is that you would probably require the specialist sub-contractor to tell | 4 5 6 | MR KHAW: Quality assurance scheme. CHAIRMAN: Thank you. That's the quality assurance scheme. MR KHAW: So what I'm interested in is, since Leighton attended the interface meetings where the specific brand or type of couplers for 1111 was discussed, so Leighton |
| 4 5 6 7 | correct? A. Yes. Q. But what you have just told us is that you would probably require the specialist sub-contractor to tell you the type or the brand of the rebars of the coupler | 4 5 6 7 | MR KHAW: Quality assurance scheme. CHAIRMAN: Thank you. That's the quality assurance scheme. MR KHAW: So what I'm interested in is, since Leighton attended the interface meetings where the specific brand or type of couplers for 1111 was discussed, so Leighton obviously knew about this requirement what I'm not |
| 4 5 6 7 8 | correct? A. Yes. Q. But what you have just told us is that you would probably require the specialist sub-contractor to tell you the type or the brand of the rebars of the coupler that should be ordered? | 4 5 6 7 8 9 | MR KHAW: Quality assurance scheme. CHAIRMAN: Thank you. That's the quality assurance scheme. MR KHAW: So what I'm interested in is, since Leighton attended the interface meetings where the specific brand or type of couplers for 1111 was discussed, so Leighton obviously knew about this requirement what I'm not quite sure about is apart from the fact that the |
| 4 5 6 7 8 9 10 11 | correct? A. Yes. Q. But what you have just told us is that you would probably require the specialist sub-contractor to tell you the type or the brand of the rebars of the coupler that should be ordered? A. To call off the materials. | 4 5 6 7 8 9 10 11 | MR KHAW: Quality assurance scheme. CHAIRMAN: Thank you. That's the quality assurance scheme. MR KHAW: So what I'm interested in is, since Leighton attended the interface meetings where the specific brand or type of couplers for 1111 was discussed, so Leighton obviously knew about this requirement what I'm not quite sure about is apart from the fact that the sub-contractor should know what they do, on what basis |
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me that Leighton would also have a part to play in 2 identifying what would be the appropriate brand or type

4 A. I think, obviously, the people who attended the

- 5 interface meetings were aware of the requirement for
- 6 Lenton couplers.

that should be used?

7 Q. Yes.

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- 8 A. But there seemed to be a communication breakdown.
- 9 Q. Yes. Thank you.

10 Another point I would like to explore with you --11 it's the issue regarding the chipping of the concrete 12 surface that Mr Pennicott had also discussed briefly 13 with you.

14 If couplers were damaged during the process, would 15 Leighton be responsible for replacing those couplers?

16 A. Which couplers are you talking about? The 1111 or the 17

- 18 Q. Let's talk about 1112 first.
- 19 A. Yes.
- 20 Q. Just in general, if couplers were damaged during this
- 21 chipping process, do you know whether Leighton would be
- 22. responsible for replacing the couplers?
- 23 A. You are saying if these were damaged -- in this
- 24 scenario, if Leighton had damaged the couplers, Leighton
- 25 or Leighton's other sub-contractors?

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- 1 A. I think in terms of doing inspections, our engineers are 2 aware of the requirements that are required to be done 3 on the project.
 - Q. Because I asked Henry Lai and we also asked Jeff Lii yesterday, and it seems to us that their answer was that they were not given any particular instructions or notice as to what they should look for during the inspection process. That's the answer that they gave

10 So I'm interested to know, given what happened, has 11 Leighton considered that the training or the 12 instructions given to the engineers were not sufficient?

A. Let me just think about that.

I think in any organisation, there's always more that could be done in any area, and we are looking at different ways of education, different ways of training, that can be done in the future.

Q. If I can then move on to talk about the site diaries that Mr Pennicott also went through. If we can have a look at CC1/443.

If we can blow that up a little bit, and if we go to the number of labour.

- 23 MR PENNICOTT: Can we just get the date first?
- 24 MR KHAW: Sorry. This is --
- 25 MR PENNICOTT: 4 January 2017.

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1 Q. Yes.

- 2 A. Then -- I don't know the details, but Leighton would 3 provide the material.
- 4 Q. Earlier on, Mr Chairman asked you a question regarding 5 whether the engineers who were responsible for carrying
- 6 out the inspection had been given sufficient training or
- 7 instruction as to what they should look for, what they
- 8 should see during the inspection process. Do you
- 9 remember that?
- 10 A. Yes.

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11 Q. Then you told us that Leighton has classroom trainings, 12 on-site trainings, et cetera, et cetera.

13 The problem now is that we all know that -- for 14 example, in respect of the stitch joints, we all know 15 that there were improper or inadequate coupler 16 connections during the execution of the works, and such 17 improper or inadequate connections actually went 18 unnoticed by the engineers on site, and we have 19 discussed that with Henry Lai, et cetera. 20

So now we are aware of this problem, did Leighton consider that the engineers were not given sufficient training or instructions for the purpose of carrying out -- I mean instructions or training to the engineers for the purpose of carrying out the inspection works on site?

MR KHAW: 4 January 2017.

It's supposed to be a daily site record. If we look at the number of labour for each activity, I take it that the information must have been supplied by Leighton to MTR; am I correct?

- A. Not necessarily, actually. MTRC have inspectors on the 7 project, you know. We countersigned these records.
- 8 Q. Right. So you mean the MTR inspectors were supposed to 9 actually be able to count the exact number of labourers 10 for each activity?
- 11 A. With site diaries, they are a moment in time. Obviously 12 there could be labour in a room or whatever moving 13 around. So it may not reflect the exact number of
- labour on the project. 14
- 15 Q. Right. Now, you've told us that Leighton, as a main 16 contractor, was not responsible for compiling any site 17 diary. Is that correct?
- 18 A. Well, I said MTRC -- a diary was produced that we 19 countersigned together with MTRC.
- 20 Q. Yes. But let's take a look at this countersign issue.
- 21 If we can go to the bottom -- now, this one was
- 22 apparently countersigned by Ian Rawsthorne, and he
- 23 countersigned it on 16 February --
- 24 A. It's PPed by someone else, actually.
 - Q. Yes, by someone else, on behalf of him.

Page 57 Page 59 A. Yes. 1 So if there is an issue with an engineer, he can speak 1 2 2 Q. And it was dated 16 February 2017. to his direct boss, which may be the sub-agent or site 3 3 A. Okay. agent or construction manager and, you know, people are 4 4 able to speak freely about what requirements are needed. Q. So that was more than one month after this particular 5 Q. Right. But from this incident, obviously we have been 5 site diary was prepared. 6 So what I'm interested to know is: what's the 6 told by Henry Lai and Jeff Lii that when they failed to 7 7 cope, they found their own way to try to solve the purpose of this countersign when it was done more than 8 8 one month later, and Leighton does not have any raw problem. For example, we have also seen an incident 9 materials, so to speak --9 that RISC forms for a period of four months were 10 10 suddenly submitted to MTR in one go. So that was how A. That's not correct. 11 Q. -- to actually verify --11 they perceived to be the way to solve the problem. 12 A. That's not correct. I think maybe -- I thought the 12 So given the incidents that we have now seen, has 13 question you were asking me was did Leighton keep 13 Leighton actually considered it necessary to review the 14 14 an equivalent diary the same as this? system as to how or what the engineers should do when 15 15 they encounter similar problems on site? Q. Right. A. That's not -- did we keep it exactly the same as this? 16 A. Sure. So if we just take the RISC forms, one of the 16 17 No, we didn't. But obviously, on our projects, we have 17 issues that has arisen in respect of the RISC forms was 18 18 records of all the resource on the projects for each that the ability to continue the works beyond the hold 19 19 sub-contractor. point. Say, for example, the reinforcement fixing, Q. Right. So you mean that there would be records kept by 20 20 a RISC form should be submitted and the work should hold 21 21 Leighton, who would enable the representative of until that's approved, and then continue to the next 2.2. 22 Leighton to verify the information contained on this 23 site diary compiled by MTR? 23 So when the system was changed by sort of, you know, 24 24 A. It's before I was employed as a general manager, this a verbal approval, and was given and the works allowed 25 date, but, you know, normally our staff would check 25 to proceed -- we've reviewed that as a system, and what Page 58 Page 60 1 their own records, maybe with the labour officer, we have now is that we have developed a system with 1 2 et cetera, of the resource on the project and what they 2 construction lots, so that we forecast now on our 3 3 were doing. projects the RISC forms that will be submitted for 4 4 Q. Regarding the RISC forms, the only matter that I wish to an area; okay? We now know whether or not a RISC form, 5 discuss with you is this. We heard evidence from Henry 5 at the end of each day or the end of each week, whether 6 Lai and also Jeff Lii that they failed to submit the 6 there's any outstanding for those areas. So we have 7 7 RISC forms, and they told us that they are too busy at tracking schedules and tracking systems in place. 8 work, and Jeff Lii also told us that he did not find 8 So what has happened here, which could be down to 9 this whole process of making RISC forms very 9 maybe the archaic system we are dealing with will not 10 10 user-friendly, even though he told us that that was not happen again going forward. We have now put the systems 11 11 the main reason why he did not compile the RISC forms. in place to avoid this, and obviously the digitalisation 12 The main reason was still he had difficulty, he couldn't 12 which we have heading to now, towards the third 13 cope, because of the heavy workload on site. 13 quarter/fourth quarter with all our documents, this will 14 14 So what I'm interested to know is: did Leighton ever make it much more easier, user-friendly, simplified 15 15 tell the engineers, "When you encounter a problem processes to go forward. 16 on site which would make you unable to discharge your 16 But just because the RISC forms -- the RISC forms 17 duties fully, which would make you unable to complete 17 are just one element of it. You know, the formal 18 all your work that you are supposed to do", then what 18 inspections have taken place. There are, as we've said, 19 should the engineers then do; what steps should they 19 diaries, there are WhatsApps, there are photographs; 20 20 take in order to let, for example, their superior know there's lots of other pieces of information around this. 21 the difficulties? Do you --21 Q. Finally, in relation to testing of materials, that you 22 A. We have very much an open-door policy within Leighton. 22 have also covered in your witness statement, as you told 23 23 You know, for example, my door is always open. I get us that about 7 per cent of the rebar delivered to site 24 24 calls sometimes from engineers or project managers -was not tested, but you told us that Leighton intends to 25 different levels. It's very flat-lined in that respect. 25 adduce expert evidence to address this point, or to

Page 61 Page 63 1 demonstrate as to whether the tests performed on the 1 2 COMMISSIONER HANSFORD: Do you know why, in some countries 2 rebars was sufficient or not. 3 3 that's acceptable without this additional on-site First of all, I would like to ask you, on this 4 4 sampling? Do you know? point, are you aware of the requirement imposed by the 5 A. We are currently putting the expert advice around that. 5 Buildings Department regarding the testing of materials? 6 A. In respect of the HOKLAS testing? 6 We do have examples of that where the manufacturer's is 7 7 sufficient. Q. I can actually take you to one of the acceptance 8 COMMISSIONER HANSFORD: Yes. I just wondered if you knew 8 letters: DD8/11586. 9 9 That's one of the acceptance letters in relation to why it was different in Hong Kong. 10 10 A. I don't know the exact requirement, but we certainly HHS. If I can then take you to have a look at one of 11 the appendixes, if I can take you to DD11571. This is 11 have -- we are working on something now, at the moment, 12 one of the attachments to the government's acceptance 12 for the expert evidence. 13 COMMISSIONER HANSFORD: Okay. 13 letter. This attachment refers to certain requirements 14 14 MR KHAW: Are you aware of some previous incident -- have on sampling and testing of steel reinforcing bars which 15 would need to be carried out. 15 you heard about this incident called the Kobe Steel 16 16 scandal where the manufacturer's certificate of If we look at paragraph (a), it says: 17 inspection were actually not reliable and that caused 17 "Sampling and testing of steel reinforcing bars 18 misuse of materials? 18 should be carried out in accordance with Practice 19 A. As I said, all the material delivered to this project 19 Note ... Testing should be carried out by a laboratory 20 which was HOKLAS tested all passed. 20 accredited [by the HOKLAS] for the particular test 21 Q. Finally, when we discussed the issues with Mr Kitching, 21 concerned. Test results should be submitted within 22 22 he told us that there were certain internal reports 60 days of the delivery of the steel reinforcing bars to 23 23 the site. The test reports should be appended with compiled by Leighton after the incidents came to light, 24 addressing the issues such as the estimated costs 24 a statement signed by the competent person to confirm 25 the following: 25 involved and progress, et cetera. Are you aware of Page 62 Page 64 1 those internal reports? 1 (i) All steel reinforcing bars used for the 2 2. A. Yes, I am. construction and the test specimens covered by the test 3 3 Q. Any conclusions which have been made so far within those reports are in accordance with the types and grades of 4 reports? 4 steel shown in the agreed proposal. 5 A. I think where we are in terms of reports at the 5 (ii) Sampling and testing of steel reinforcing bars 6 6 used have been carried out in accordance with [the moment -- as I said earlier, the focus was on rectifying 7 the defects, which we've done, rectified it all. That 7 Practice Note]. 8 was the main focus of that investigation. (iii) The acceptance criteria appropriate to each 9 MR KHAW: I have no further questions. Thank you. 9 type and grade of steel reinforcing bars used have been 10 10 MR LIU: Sir, no questions. complied with. 11 (iv) ... carried out by a laboratory accredited 11 CHAIRMAN: Thank you. 12 COMMISSIONER HANSFORD: I have one, but perhaps if I can 12 under the HOKLAS." 13 13 In view of this requirement, would you agree that raise before Mr Shieh stands up, or speaks up -- he's 14 14 not going to stand up. the materials delivered on site with only the 15 Are you aware, Mr Speed, of an interfacing 15 manufacturer's certificate or with only the requirement specification for civils contracts? 16 manufacturer's inspection would not be adequate because 16 17 17 you still have to have the required sampling or testing A. In general terms, yes. COMMISSIONER HANSFORD: Could we have a look at it? BB420 18 18 before the materials could actually be used on site? 19 A. HOKLAS testing is required for the contract. 19 A. I've not studied this document. 20 COMMISSIONER HANSFORD: No, no, no. I just want to take you 20 Q. Yes. 21 21 to something. This is the appendix to contract 1112. A. And what I said earlier was that, okay, we have 22 I'm assuming there's a similar one for 1111, but never 22 100 per cent of the testing from the manufacturers, 23 23 mind whether or not there is. which is often used in other countries, you know, and 24 24 Can we turn to page, now, BB425. If you look at there is -- 7 per cent of it has not been HOKLAS tested. 25 But all the testing carried out on the project has 25 item 1.7, this sets out what the 1111 contractor should

| | Page 65 | | Page 67 |
|--|--|--|--|
| 1 | do and what the 1112 contractor should do at | 1 | Q. And your signature appears at 3783? |
| 2 | an interface. I just wonder whether you agree with me | 2 | A. That's correct. |
| 3 | that this implies a joint inspection between the two | 3 | Q. You are prepared to put forward the content of these two |
| 4 | contractors, to identify couplers, protection measures | 4 | witness statements as your evidence in this Commission |
| 5 | to couplers, and accepts that they're provided at the | 5 | of Inquiry? |
| 6 | interface? Is that what this | 6 | A. I am. |
| 7 | A. I haven't read the document before. | 7 | Q. Thank you. Now, can I show you a corporate chart at |
| 8 | COMMISSIONER HANSFORD: No, but reading it now, 1.7, do you | 8 | CC2/526. |
| 9 | see | 9 | A. Sure. |
| 10 | A. If "joint inspection" means the 1111 contractor and the | 10 | Q. This is a familiar chart that we have seen a few times. |
| 11 | 1112 contractor, if that's what it means. | 11 | You can see the blue "MTRC" box at the top? |
| 12 | COMMISSIONER HANSFORD: Well, I wonder if that's what it | 12 | A. Yes. |
| 13 | means, and if it does, then presumably the 1112 | 13 | Q. And around 8 o'clock from the "MTRC" blue box, far left, |
| 14 | contractor would have seen the state, the conditions, of | 14 | we can see your goodself, "Engineering manager, William |
| 15 | the couplers at the interface when this joint inspection | 15 | Holden"; do you see that? |
| 16 | was taking place. | 16 | A. We are there now. Yes, that's right. |
| 17 | A. I'm aware that they are responsible for the breaking out | 17 | Q. So that accords with your understanding as to your |
| 18 | and making good any damage that occurred at that | 18 | position within the organisation as of May 2017? |
| 19 | interface. | 19 | A. That's correct, at that point. |
| 20 | COMMISSIONER HANSFORD: My point is slightly different, | 20 | MR SHIEH: Thank you very much. You have presumably been |
| 21 | because my point is you will have both seen it and | 21 | observing these proceedings and you would know the order |
| 22 | agreed it, if this was followed. | 22 | of proceedings. Counsel for the Commission, |
| 23 | A. I wasn't there so I can't comment on what happened at | 23 | Mr Pennicott, in front of me, and other counsel will ask |
| 24 | the workface. | 24 | you questions, and also perhaps the Commissioner and |
| 25 | COMMISSIONER HANSFORD: Okay. Thank you very much. | 25 | Mr Chairman. Then I may have follow-up questions for |
| | Page 66 | | Page 68 |
| 1 | MR SHIEH: I have no re-examination. | 1 | you in re-examination. So please remain seated and |
| 2 | CHAIRMAN: Good. | 2 | answer those questions. |
| 3 | Thank you very much, Mr Speed. Thank you for your | 3 | WITNESS: Sure. Thank you. |
| 4 | assistance. | 4 | Examination by MR PENNICOTT |
| 5 | WITNESS: Thank you very much. | 5 | MR PENNICOTT: Good morning, or good afternoon, Mr Holden |
| 6 | (The witness was released) | 6 | A. Good afternoon. It's afternoon, just. |
| 7 | MR SHIEH: The next witness for Leighton is Mr William | 7 | Q. First of all, thank you very much for coming along to |
| 8 | Holden. | 8 | give evidence to the Commission today. |
| 9 | MR WILLIAM HOLDEN (affirmed) | 9 | Mr Shieh has explained the process so I'm not going |
| 10 | Examination-in-chief by MR SHIEH | 10 | to repeat it. |
| 11 | Q. Good morning, Mr Holden. | 11 | What I would like to do, though, Mr Holden, is just |
| 12 | A. Good morning. | 12 | to spell out with you your involvement with this |
| | | 13 | project. |
| 13 | Q. You have given two witness statements for the purpose of | 13 | 1 3 |
| 13 14 | Q. You have given two witness statements for the purpose of this Commission of Inquiry. Can I ask you first to look | 14 | A. Sure. |
| | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the | | A. Sure. Q. I appreciate that you've set it out in your witness |
| 14 | this Commission of Inquiry. Can I ask you first to look | 14 | A. Sure. |
| 14 15 16 17 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness | 14 15 16 17 | A. Sure. Q. I appreciate that you've set it out in your witness |
| 14 15 16 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? | 14 15 16 | A. Sure. Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement. |
| 14 15 16 17 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? A. Yes, I do. | 14 15 16 17 18 19 | A. Sure.Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement.A. Sure. |
| 14 15 16 17 18 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? A. Yes, I do. Q. Can you turn to page 80, where I believe you can find | 14 15 16 17 18 19 20 | A. Sure. Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement. A. Sure. Q. So if we can just put everything in context, and I do |
| 14 15 16 17 18 19 20 21 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? A. Yes, I do. Q. Can you turn to page 80, where I believe you can find your signature. | 14 15 16 17 18 19 20 21 | A. Sure. Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement. A. Sure. Q. So if we can just put everything in context, and I do have one or two questions to ask you about your |
| 14 15 16 17 18 19 20 21 22 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? A. Yes, I do. Q. Can you turn to page 80, where I believe you can find your signature. A. That's mine, yes. | 14 15 16 17 18 19 20 21 22 | A. Sure. Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement. A. Sure. Q. So if we can just put everything in context, and I do have one or two questions to ask you about your involvement at various stages in any event. |
| 14 15 16 17 18 19 20 21 22 23 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? A. Yes, I do. Q. Can you turn to page 80, where I believe you can find your signature. A. That's mine, yes. Q. Next, can I ask you to look at bundle CC6, page 3764. | 14 15 16 17 18 19 20 21 22 23 | A. Sure. Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement. A. Sure. Q. So if we can just put everything in context, and I do have one or two questions to ask you about your involvement at various stages in any event. A. Okay. |
| 14 15 16 17 18 19 20 21 22 | this Commission of Inquiry. Can I ask you first to look at bundle CC1, page 72. You can choose to look at the hard-copy version, if you have, or look at the monitor in front of you. It's a document headed, "First witness statement of William Holden"; do you see that? A. Yes, I do. Q. Can you turn to page 80, where I believe you can find your signature. A. That's mine, yes. | 14 15 16 17 18 19 20 21 22 | A. Sure. Q. I appreciate that you've set it out in your witness statement, but there are those not necessarily in this room who've not had an opportunity of reading the statement. A. Sure. Q. So if we can just put everything in context, and I do have one or two questions to ask you about your involvement at various stages in any event. |

Page 71 Page 69 1 you were a senior site agent, dealing primarily with 1 stitch joint? 2 foundation works in and about the diaphragm walls; is 2 A. Yes. It was a side job, I guess. So the engineering 3 3 that right? manager was part of the role I was doing, but an extra 4 A. That's correct, for the Hung Hom Station. 4 because of the works that came up to do with the 5 5 Q. For the Hung Hom Station. rectification; it got tasked to me. 6 6 Q. Yes. I think Mr Kitching has told us that he requested 7 Q. Then, from early 2015 to mid-2016, you were involved 7 you to, as it were, head up --8 with the underpinning works to the existing podium 8 A. That's correct. 9 9 Q. -- that investigation? 10 A. We were in a stage where a lot of the major works was 10 A. That's correct. 11 Q. Then, from mid-2016 to late 2016 -- so I take that to be 11 downsizing, so we had limited people on the job at that 12 about a six-month period --12 point in time, so they asked me to come in and help out 13 13 with this specific task. Q. -- you say you were involved in the broader planning and 14 14 Q. Okay. You tell us, and obviously one understands this, 15 15 commercial aspects of the project. that you weren't involved in the initial construction of 16 A. That's right. 16 the NAT stitch joints. 17 Q. So that was presumably a sort of off-site --17 A. That's correct. 18 18 A. No, it was on site. We were in the process of working Q. But Mr Speed has prompted me to ask you this question, 19 with MTR to get to an interim final account, and I was 19 a question that we are still, at least I am, trying to 20 involved in that process. 20 get an answer to. 21 Q. Understood. 21 I don't know whether you can help or not, Mr Holden. 22. Then you say in early 2017 you went to the HHS area? 22 If you can't, just tell us. 23 A. That's correct. 23 A. Okay. 24 Q. What was your role at that time in the HHS area? 24 Q. We know that the stitch joints are constructed as one of 25 A. In the HHS, at that point in time, most our major civil 25 the last operations, civil operations. Page 72 works was complete. We were coordinating access with 1 1 A. That's correct. 2 the designated contractor, particularly 1173, which is 2 O. We understand that's because the two structures that are 3 3 the building services contractor. We still had some going to be stitched together have to stabilise. 4 4 A. That's correct. minor outstanding works that we needed to carry out in 5 5 parallel with their works. So I was there to coordinate Q. The question that we're asking, that I'm asking, is: how 6 and carry out that works and complete it, for Fire 6 does one know when that stage has been reached and it is 7 7 Services inspection later in 2017. safe and appropriate to start constructing the stitch 8 Q. Understood. I've looked at the pour summary document 8 joints? Do you know the answer to that question? 9 for the HHS area --9 A. I've done some homework, you will be pleased to know. 10 10 A. Yes. I'm trying to answer your question. But I don't know 11 Q. -- and indeed there seemed to be, perhaps, half a dozen, 11 definitively because there's nothing within our contract 12 12 perhaps a bit more, number of pours left. that I can find where there's a quantity of "you are not 13 A. Yes. 13 allowed a certain amount of settlement beyond X 14 Q. So I had worked out that the civil works were basically 14 millimetres over a period of time", and I wasn't there 15 complete and you were then moving on to building 15 at the time, but we did monitor the structures 16 services, as you say. 16 throughout the period. So our only guide was that note 17 A. That's right. 17 on the drawing which has come up already, which is "as 18 late as possible" and after completion of recharge. So 18 Q. Then, in May 2017, as we've just seen with Mr Shieh and 19 the organisation chart, you were made the engineering 19 I'm assuming, at that point in time, we were getting 20 20 manager? pushed to hand over the track works, the backfilling was 21 A. That's correct. 21 complete, recharge was completed; we were ready to carry 22 22 Q. And that was the engineering manager for this project? out the work. But I'm not aware of any monitoring or 23 23 A. For the entire project, that's right. instrumentation or report that was required and approved 24 24 Q. It was in that role, as I understand it, that you by anyone -- or it would have to be approved by the 25 ultimately found yourself managing the remedying of the permanent works designer as their design requirement for

Page 73 Page 75 Q. Then, having broken, what, approximately how many holes stitching that structure together. 1 1 2 Q. All right. And has your research indicated as to 2 on that side? 3 3 A. I think, if I recall, about six holes. There's two whether there might have been any 4 4 tracks and probably about six to eight, I think, in that communication/discussion between Leighton and MTR? 5 5 A. I couldn't find any. 6 Q. You couldn't find any? Okay. 6 Q. Right. On the Gammon-Kaden side? 7 7 A. Or in that joint entirely, in total. Turning to investigation, Mr Holden. 8 A. Sure. 8 Q. So having broken out some areas on the Gammon-Kaden 9 Q. Picking it up in your witness statement, please, that's 9 side, you then went to the other side and did a similar 10 10 number of -your first witness statement, at paragraph 17 -- you 11 tell us that you were assigned in January 2018 "to 11 A. Yes, that's right. 12 inspect some concrete cracking and water ingress at the 12 Q. So probably about three or four holes on each side? 13 NSL interface stitch joint ... with a view to providing 13 A. Three or four holes on each side? That's right. We 14 14 only had access to the walls immediately, so we did the your recommendations on remedial measures." Then you 15 15 wall breaking-out, because the track was still in place say this: 16 "I inspected the NSL [interface stitch joint, as I'm 16 in the base slab. 17 17 Q. Understood. And were the problems that you observed calling it] and spoke to the construction manager 18 18 appointed to the NAT at that time." essentially the same on both sides? 19 Would that be Joe Tam? 19 A. The problem on the northern side, the Gammon-Kaden side, 20 A. Joe Tam had left the project by that time. I think 20 was different, because of the use of Lenton couplers, 21 21 I spoke with -- the person I'm referencing there is and the fact that a BOSA thread had been attempted to be 2.2. Colin Mitchell. 22 threaded into a Lenton coupler. So they were partially 23 Q. You spoke to Colin Mitchell? 23 engaged but there was thread sticking out of the Lenton 24 24 coupler; whereas on the southern side, which is the 25 Q. "He explained to me that there had been water leakage 25 Leighton side, there was a combination of some of them Page 74 Page 76 1 since late 2017 and that Leighton's workers had been 1 were installed correctly, full engagement, and others 2 carrying out remedial injection grouting to seal up the 2 weren't installed at all, they were put close to the 3 3 cracking." coupler. 4 4 Q. Just to take it in stages, on the Gammon side, on the All right. Now, at paragraph 21 you say this: 5 5 "Between 7 February 2018 and 14 February 2018, northern side, there were instances of rebar partially 6 Leighton's workers broke holes in the concrete and 6 screwed into the couplers --7 7 A. That's correct. exposed some of the reinforcement bars at the NSL stitch 8 joint ... I was personally involved in inspecting the 8 Q. -- but only partially? 9 rebar and coupler connections. On inspection, I could 9 A. There were instances of partial installation and then 10 10 see that a significant number of the exposed rebar had also no installation. 11 been incorrectly connected, or were not connected, into 11 O. No installation? 12 the couplers." 12 A. That's right. 13 A. That's correct. 13 Q. All right. Then, on the Leighton side, there were 14 Q. When you make those observations, Mr Holden, are you 14 instances of full engagement but also instances of no 15 referring to both sides of the stitch joint, that is the 15 engagement? 16 Gammon-Kaden side and the Leighton side? 16 A. Exactly. 17 A. The first inspection was the Gammon-Kaden side, but we 17 Q. On the Gammon side, where there was partial engagement, 18 did break holes on the Leighton side of that same joint 18 presumably there were quite a number of threads showing? 19 at a certain time. 19 A. Yes. I think you could get it in two to three threads, 20 I think is the recollection. I can't recall if that's 20 Q. So you started with the Gammon-Kaden side? 21 A. That's where the crack was present, on the Gammon-Kaden 21 from that point in time or subsequent knowledge. 22 22 Q. Okay. And all of this was pretty clear and obvious? 23 23 Q. Okay. That was where the water seepage was presumably, A. That's right. 24 as well? 24 COMMISSIONER HANSFORD: Just in your paragraph 24 --25 A. Yes, that's right. 25 A. Sure.

| | Page 77 | | Page 79 |
|--|--|--|--|
| 1 | COMMISSIONER HANSFORD: which I think is where we are. | 1 | COMMISSIONER HANSFORD: Because it seems, in your |
| 2 | MR PENNICOTT: Or where we're coming to. | 2 | paragraph 24, that at the 1111/1112 stitch joint, you |
| 3 | COMMISSIONER HANSFORD: You ask your questions first then | 3 | concluded that water seepage was due to non-engagement |
| 4 | Mr Pennicott, because it may cover my points. | 4 | of couplers. |
| 5 | MR PENNICOTT: We'll see. | 5 | A. Mm-hmm. |
| 6 | Before we get to paragraph 24, Mr Holden | 6 | COMMISSIONER HANSFORD: Whereas at the 1112/1112 joint, you |
| 7 | A. Sure. | 7 | concluded that it was due to a failure of the |
| 8 | Q which we will be coming to, I promise you deal in | 8 | waterproofing measures. Is that right? |
| 9 | paragraph 23 with of the internal stitch joint. | 9 | A. The 1111/1112 joint had because the couplers weren't |
| 10 | A. Yes. | 10 | engaged, and likely due to the cold weather had actually |
| 11 | Q. Let's deal with that first. You say: | 11 | cracked apart, so the permanent waterproofing measures |
| 12 | "Between [those dates] 9 February 2018 and | 12 | are a PVC strip which is cast as a waterstop between the |
| 13 | 14 February 2018, Leighton's workers broke holes in the | 13 | two structures, in parallel with some hydrophilic |
| 14 | concrete at the other two stitch joints" | 14 | strips. So any amount of movement of that, the concrete |
| 15 | Can I just focus, please, on the internal stitch | 15 | bond to the PVC strip would not work, so it would create |
| 16 | joint. | 16 | a water path around that. That's why I say the crack or |
| 17 | A. Sure. | 17 | the non-engagement of the couplers was the first cause |
| 18 | Q. What did you observe at the internal stitch joint? What | 18 | of why that joint was leaking. |
| 19 | was the problem there? | 19 | COMMISSIONER HANSFORD: There's also an Omega seal. |
| 20 | A. The internal stitch joint, there was quite a lot of | 20 | A. Omega seal is a temporary seal that allows some |
| 21 | threaded bar and coupler that wasn't engaged at all, and | 21 | movement. My experience with those is they do let |
| 22 | this was in the six or so locations on both sides of the | 22 | a little bit of water in, in a permanent case. They are |
| 23 | joint. | 23 | not a thing that may be a permanent waterproofing |
| 24 | Q. On both sides of the joint, right. So again it was | 24 | detail. |
| 25 | approximately three to four holes on each side of the | 25 | COMMISSIONER HANSFORD: I see. |
| | Page 78 | | Page 80 |
| | | | |
| 1 | joint? | 1 | A. But you're right, there was an Omega seal there, but |
| 1 2 | joint? A. That's right. | 1 2 | A. But you're right, there was an Omega seal there, but of course for it to be leaking, it would have had to |
| | 3 | | |
| 2 | A. That's right. | 2 | of course for it to be leaking, it would have had to |
| 2 3 | A. That's right. Q. Some partially engaged, some not engaged and some fully | 2 3 | of course for it to be leaking, it would have had to have breached the Omega seal as well. |
| 2 3 4 | A. That's right. Q. Some partially engaged, some not engaged and some fully engaged; a combination of all three? | 2 3 4 | of course for it to be leaking, it would have had to have breached the Omega seal as well. COMMISSIONER HANSFORD: So on that one, it was clear that |
| 2 3 4 5 | A. That's right. Q. Some partially engaged, some not engaged and some fully engaged; a combination of all three? A. I would say the ones that were engaged were fairly well | 2 3 4 5 | of course for it to be leaking, it would have had to have breached the Omega seal as well. COMMISSIONER HANSFORD: So on that one, it was clear that the water path was due to the crack? |
| 2 3 4 5 6 | A. That's right.Q. Some partially engaged, some not engaged and some fully engaged; a combination of all three?A. I would say the ones that were engaged were fairly well screwed in. There was no reason for them not to be | 2 3 4 5 6 | of course for it to be leaking, it would have had to have breached the Omega seal as well. COMMISSIONER HANSFORD: So on that one, it was clear that the water path was due to the crack? A. Yes, that's correct. |
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Page 83 Page 81 1 coming through. There was the same waterproofing detail 1 problem, the decision was in any event just to rip it 2 was in the 1111/1112 joint. However, why that is, 2 all out and start again? 3 3 I don't think it's to do with the crack because the A. Exactly. We've seen that it needed to be replaced, yes; 4 crack wasn't present. It could have been to do with the 4 for structural reasons, not waterproofing. 5 5 fact that the roof of the 1112/1112 joint was not Q. Yes, structural rather than waterproofing, yes, 6 completely concreted, as completed in the original cast. 6 understood. 7 7 It was only half-full. The fact is that the PVC When you were carrying out this investigation, 8 waterstop may not have been fully engaged with the 8 Mr Holden, did you, as part of that investigation, seek 9 concrete at the roof section, creating a water path 9 to look back in time and seek to find any records of the 10 10 through the Omega seal, along the joint, and then around means by which the original stitch joints had been 11 the PVC, and then out through the joint on the internal 11 constructed? Did you look back to find any relevant 12 side of the 1112/1112 joint. 12 records? 13 We had been doing grout injection on that joint for 13 A. We did a study to see whether inspection forms were 14 several months prior to that, and chasing the water 14 there, and then also we did some discussions with the 15 15 around the joint, but unsuccessfully to stop it. people that were involved at the time. 16 Q. Just pausing there. When did you realise -- at what 16 Q. Right. So, during the -- fairly early during the course 17 point did you realise there was this void --17 of this investigation, presumably you must have 18 A. We didn't realise there was a void there until we 18 appreciated that there were no, for example, RISC forms 19 started the demolition in the roof. 19 in relation to the original stitch joints? 20 Q. Is this where you were pumping the grout in? 20 A. That's correct. 21 A. The grout was pumped after, as part of the remedial 21 Q. Paragraph 26 of your first witness statement, please. 22. 22 measure, to avoid any potential void in the roof pour. You are dealing here with the remedial proposal for the 23 But when we pumped grout initially after the demolition, 23 EWL stitch joint. 24 that was to seal up behind the Omega seal on the outside 24 A. That's correct. 25 of the structure, because when we broke through the --25 Q. So let's just focus on that for a moment. You say: Page 82 Page 84 1 or demolished the roof of the interface joint or stitch "On or around 3 March 2018, Leighton submitted 1 2 2 formally via contractors submission form the 'Task joint 1 at NSL, we did have a significant amount of 3 3 water coming through from the ground into the tunnel. method statement for EWL stitch joint reconstruction' 4 4 for MTR's approval. This was followed by a further So we did a cementitious injected grout through the 5 5 tunnel lining, and then that was attempting to try and revision on or around 17 March ..." 6 solidify and stop the water path from the ground coming 6 First of all, Mr Holden, can you confirm that there 7 7 into the tunnel. was no equivalent task method statement for the original 8 8 stitch joints? Q. Right. 9 A. We carried that out only on the interface joint 9 A. I'm not aware that there was. There is a general method 10 10 1111/1112. statement for the NAT permanent works, the station-box 11 11 Q. Yes. On the NSL? EWL. From my recollection of that document, it didn't A. That's right, the NSL. There's no water leaks -- it's deal specifically with the stitch joint. 12 12 13 above the water table at EWL. 13 Q. That was the conclusion I have reached, having looked at 14 Q. And there's no roof? 14 that general method statement for the NAT. 15 A. Exactly, yes. 15 Can I ask you this. From your experience, would you O. Just focusing on the internal stitch joint for a few 16 have expected the original stitch joints to have had 16 17 17 a specific method statement for their construction? more moments, despite your conclusion that the water 18 18 seepage had probably occurred as a result of the failure A. I think there should have been some specific notes 19 of the installed permanent waterproofing measures, as 19 related to the stitch joints within the method statement 20 20 you say, you had discovered the lack of connection of or a separate method statement, yes. 21 21 Q. At paragraph 30 of your witness statement, you deal the rebar --22 22 A. That's correct. there with the remedial proposal for the NSL stitch 23 23 Q. -- in that joint? joint -- stitch joints -- and at paragraph 30 you again 24 24 A. That's right. refer to a task method statement, and in relation to the 25 25 NSL stitch joints, I assume your answers are the same -Q. So despite your views about what was causing the

Page 85 Page 87 1 A. Yes. 1 40 millimetre reinforcement, was quite difficult. 2 Q. -- in relation to the method statement? 2 The design required a 20 millimetre aggregate, which A. Yes. 3 3 is normal size, but it's difficult to pump large 4 4 Q. Then could I ask you, please, to go to paragraph 37 of aggregate size concrete into highly congested concrete 5 5 your witness statement. This is just to pick up the pours, particularly when you are pumping from the 6 subheading. You will see, just above paragraph 37, you 6 surface down into the tunnel and then vertically up into 7 are dealing there with the rectification of the NSL 7 the formwork. 8 stitch joints. 8 Q. So the solution to that was you got the MTR's permission 9 A. (Nodded head). 9 to use a different concrete mix? 10 Q. Then if I could ask you to go to paragraph 42, a point 10 A. Yes. We requested a few options from them, to try to 11 we have already touched upon but perhaps I could just 11 reduce the amount of reinforcement that was in the 12 ask you a couple of further questions. You say: 12 concrete pour, because we were aware that it was 13 "During the demolition works of the NSL stitch 13 over-designed. There was some spare utilisation in the 14 14 joint ..." stitch joint. But that was not accepted. But we did 15 15 That's the internal one? get an acceptance of using a 10mm aggregate which 16 A. That's right. 16 ultimately was successful. 17 Q. "... T&M ..." 17 Q. Then, in paragraphs 54 to 59 of your witness statement, 18 I think that's one of the sub-contractors doing the 18 Mr Holden, you deal with the shunt neck --19 works? 19 20 A. Correct. 20 Q. -- joint, and you say, the last line of paragraph 57: 21 Q. "... discovered that there was a void above the cast 21 "On inspection, I could see that the exposed rebar 22 22. concrete in the roof of the stitch joint. The likely in the trough walls were not properly connected to 23 reason for the void was due to difficulties encountered 23 couplers." 24 during the concreting works which forced the early 24 A. That's correct. 25 termination of the concrete pour. I was not aware of 25 Q. So a similar situation to the EWL stitch joint; is that Page 86 Page 88 1 this void at the commencement of the rectification right? 1 2 works." 2 A. That's correct. We only had access to inspect the 3 3 trough walls in that location, and there were Lenton Was that void a contributory factor to the problem? 4 couplers left on the Gammon side in the trough wall, and 4 A. I think a contributory factor to the water inflow, 5 there weren't Lenton threaded rebars, and so the 5 but -- structurally it is a problem as well, but yes, 6 compounded with the rebar non-connection. 6 connection was not complete. 7 Q. Right. 7 Q. Okay. 8 8 In paragraphs 43 through to 49 of your witness Sorry, sir -- could I just have one moment? 9 statement, you describe the further concreting problems 9 CHAIRMAN: Of course. 10 10 While Mr Pennicott is just checking, could I ask you that were encountered when you tried to reconstruct the 11 this. Perhaps I should have asked it of earlier 11 roof of the internal stitch joint? 12 witnesses. But in the stitch joint areas, as 12 A. Yes. 13 Q. As I understand it, those were all overcome, and the 13 I understand it, you've got quite a -- the breadth of 14 14 NCR199, as you say, was closed out satisfactorily? them is only 6 metres, maybe, is it? 15 15 A. That's correct. The only point of note there, I guess, A. Across -- or between the two structures or across --16 is that it was a difficult piece of work to do in a roof 16 CHAIRMAN: Between the two structures. 17 pour. It needed to be poured under pressure, so 17 A. Between the two structures, only about 2 metres. 18 18 CHAIRMAN: Oh, 2, yes. That's the breadth. But the length injected into the formwork in the roof, there was no 19 access from on top, and using gravity to assist placing 19 is obviously considerably longer. 20 20 A. Two track widths, 16 metres. The 1111/1112 joint, the the concrete. This can be done quite easily in tunnels, 21 but this was a bit unusual because of the high density 21 interface joint, is smaller, it's not as wide. The 22 22 internal joint is wider. It's adjacent to a niche. of reinforcement required because of the stitch joint 23 23 CHAIRMAN: When the rebars have already been fitted and you and the confined nature of the works; it was restricted 24 are looking to conduct a formal inspection, would those 24 to a 2 metre by 1 metre high box. Then injecting 25 concrete into that space, with up to six layers of 25 restricted measurements present any particular

| | Page 89 | | Page 91 |
|--|--|--|---|
| 1 | difficulty in conducting the inspection? | 1 | Q. So this is something entirely different, nothing to do |
| 2 | A. I would say it's not as easy as a normal concrete pour | 2 | with stitch joints. |
| 3 | where you are connecting a slab to a wall, for example. | 3 | Did you have any involvement with this particular |
| 4 | I mean, it's quite clear and obvious. But these were | 4 | aspect, that is the drill-in bars at the SAT, Mr Holden? |
| 5 | confined areas, that's for sure. There was a lot of | 5 | A. My involvement in the drill-in bars at the SAT was not |
| 6 | reinforcement in them, particularly in the internal | 6 | to do with the construction but the subsequent works, |
| 7 | joint, and access around them, because particularly in | 7 | since they are referred to as the Atkins report in |
| 8 | the roof you had to get up on top of a scaffold and have | 8 | point 32. So I was involved in developing that with |
| 9 | a look up there. | 9 | Atkins. |
| 10 | CHAIRMAN: Yes. | 10 | Q. Right. |
| 11 | A. I would say the external layer of reinforcement would be | 11 | A. And I was responsible during the construction of the |
| 12 | quite easy, and unless you inspected every layer, it | 12 | SAT1, 8 and 9 back in 2014, the actual diaphragm wall |
| 13 | probably would be difficult, definitely, to see the | 13 | works. |
| 14 | internal ones because of the amount of reinforcement | 14 | Q. Sorry, let me make sure I understand this. Were you |
| 15 | that was in there. You wouldn't be able to see the | 15 | involved in the decision to use drill-in bars at those |
| 16 | fixing of the inner layers of reinforcement. | 16 | connections, at those panels SAT1, 8 and 9? |
| 17 | CHAIRMAN: But presumably, if you had been keeping a running | g17 | A. No, not directly. |
| 18 | view, a running inspection of the work as it progressed, | 18 | Q. But you were involved in, as you say, the Atkins report |
| 19 | you would obviously then initially | 19 | in relation to that particular topic? |
| 20 | A. That's true. | 20 | A. Subsequently. I was aware of the requirement for some |
| 21 | CHAIRMAN: have seen the inner layers? | 21 | drill-in bars and why they were required at the time, |
| 22 | A. Yes, the inspections aren't come and have a look at a | 22 | but not specifically for these panels, and then I wasn't |
| 23 | final product. They are done progressively throughout | 23 | aware of them being carried out on site. I wasn't |
| 24 | the works, even informally. | 24 | responsible for that. |
| 25 | CHAIRMAN: Yes. And what you would have seen, when you | 25 | Q. Okay. |
| | Page 90 | | Page 92 |
| | | | rage 92 |
| 1 | started to cut in, would have been bars more on the | 1 | Lastly, Mr Holden, have you or are you playing any |
| 1 2 | | 1 2 | Lastly, Mr Holden, have you or are you playing any role in the preparation of the as-built drawings to be |
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| 2 | started to cut in, would have been bars more on the outside, initially, or more A. That's correct, so when we carried out the inspection opening, so the hand-broke little holes, there were just | 2 3 4 | Lastly, Mr Holden, have you or are you playing any role in the preparation of the as-built drawings to be submitted to MTR at the moment? A. Yes, I am. |
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| | Page 93 | | Page 95 |
|----------------------|---|----------------|---|
| 1 | A. Yes. | 1 | MR TSOI: Mr Holden, I act for Wing & Kwong, the rebar |
| 2 | Q. And they have gone through a revision process as | 2 | fixers. I've just got one or two matters to clarify |
| 3 | a result of the various problems that have been | 3 | with you. |
| 4 | discovered? | 4 | Can I take you to page CC1350. This is a Wing |
| 5 | A. That's right. The ones that were submitted in 2017 were | 5 | & Kwong letter to Leighton, and this is the Leighton |
| 6 | essentially the latest copy of working drawings which we | 6 | version of it. We can see the list of names on the |
| 7 | constructed to. The information we provided recently is | 7 | latter right-hand corner of the page. If we could |
| 8 | in relation to more information, over and above the | 8 | scroll down, closer. That's it. |
| 9 | working drawings, including positions of couplers and | 9 | We see a tick next to your name, to "Act". Is that |
| 10 | other minor amendments that we've put on drawings and | 10 | to action? |
| 11 | provided to MTR. | 11 | A. That's what it means, yes. |
| 12 | MR PENNICOTT: Okay. Sir, I have no further questions. | 12 | Q. Now reading that, can you now recall talking to anyone |
| 13 | CHAIRMAN: Good. Thank you. | 13 | about this reply from Leighton from Wing & Kwong? |
| 14 | COMMISSIONER HANSFORD: I have one. In fact, you may have | 14 | A. Can you scroll to the top, please, just so I can |
| 15 | heard us ask Mr Speed about the current status of the | 15 | Okay. So I drafted the Leighton letter for Jon |
| 16 | proposals on the repairs of the shunt neck joint. | 16 | Kitching's approval. |
| 17 | A. Yes. | 17 | Q. Right. |
| 18 | COMMISSIONER HANSFORD: And in paragraph 59, at the bottom | 18 | A. It's come back to me for action likely because I drafted |
| 19 | you say you are waiting on MTR, but I understand that | 19 | the initial letter. |
| 20 | there may be news on that; is that right? | 20 | Q. Right. |
| 21 | A. Yes, the wait is over. We've got a response from RDO at | 21 | A. My follow-up action in relation to this I think |
| 22 | the end of last week, which was a correspondence to MTRC | 22 | I would have passed this to the commercial team. |
| 23 | which they provided to us under transmittal last week so | 23 | I think it deals with commercial matters; is that right? |
| 24 | we owe a response to MTRC with response to comments, | 24 | Q. Yes. |
| 25 | which have actually been discussed with BD already in | 25 | A. So I would have spoken to the commercial manager in |
| | Page 94 | | Page 96 |
| 1 | an informal meeting, and then MTR also have some | 1 | relation to this, because I think it deals with |
| 2 | outstanding comments that they need to respond to RDO. | 2 | I can't read the bottom of the letter, actually, but |
| 3 | Once they are received, we will get acceptance of that | 3 | I think it deals with retention. Is that what it is? |
| 4 | package, I'm assuming. | 4 | Q. Right. Understood. |
| 5 | COMMISSIONER HANSFORD: And in essence, what are you doing | 5 | Now if I can turn you to page CC1356. That's also |
| 6 | there? | 6 | a Wing & Kwong letter to Leighton, on 26 February 2018. |
| 7 | A. The remedial work includes the installation of some | 7 | A. Mm-hmm. |
| 8 | steel plates to the trough walls. | 8 | Q. Again, on the right-hand side, we see a list of names of |
| 9 | COMMISSIONER HANSFORD: Yes. | 9 | the Leighton individuals, and we see a tick next to your |
| 10 | A. We have carried out Atkins have carried out | 10 | name |
| 11 | an assessment and determined that actually the two | 11 | A. Yes. |
| 12 | structures are sitting on piles themselves, so there's | 12 | Q I think to action as well? |
| 13 | very little risk of any differential movement or | 13 | A. That's right. |
| 14 | settlement, but it's just as a mitigation to recognise | 14 | Q. But in the middle there, I think it says, "Will: Note |
| 15 | that the trough walls aren't connected with | 15 | they want a joint inspection", and then "arrange". Can |
| 16 | reinforcement, continuous reinforcement. We are going | 16 | you now recall who wrote that? |
| 17 | to install essentially some strengthening plates to the | 17 | A. That's Jon Kitching's handwriting. |
| 18 | outside of the structure. | 18 | Q. Is that Mr Kitching writing to you? |
| 19 | COMMISSIONER HANSFORD: Okay. I've seen that. Thank you. | 19 | A. He is, yes. |
| | | 20 | Q. So he's asking you to arrange for a joint inspection |
| 20 | CHAIRMAN: Yes? | 20 | |
| 20 21 | MR TSOI: If I may, Chairman, because I may be absent in the | 21 | with Wing & Kwong? |
| 20 21 22 | MR TSOI: If I may, Chairman, because I may be absent in the afternoon, although I note the time. I'll be quite | 21 22 | with Wing & Kwong? A. That's right. |
| 20 21 22 23 | MR TSOI: If I may, Chairman, because I may be absent in the afternoon, although I note the time. I'll be quite short. | 21 22 23 | with Wing & Kwong? A. That's right. Q. We know, of course, that in the end there's no joint |
| 20 21 22 | MR TSOI: If I may, Chairman, because I may be absent in the afternoon, although I note the time. I'll be quite | 21 22 | with Wing & Kwong? A. That's right. |

| | Page 97 | | Page 99 |
|--|---|--|---|
| 1 | A. I thought Ah Chun came to our site and was taken to the | 1 | going into the bundles almost on a daily basis, and |
| 2 | stitch joint. | 2 | unfortunately sometimes things slip through the net. |
| 3 | Q. Yes. That was before, so that's why I'm asking. | 3 | This one certainly did so far as I was concerned. |
| 4 | A. Okay. I'm guessing maybe the joint inspection carried | 4 | If we go to DD9, at page 12254. |
| 5 | out prior. I know the stitch joint was arranged through | 5 | It's okay, he's got it on the screen. |
| 6 | Cheung Chi Wai, who was working for me at the time, with | 6 | A. That's fine. |
| 7 | Ah Chun, and there was a meeting. So I'm not sure when | 7 | Q. Mr Holden, this is a letter of 28 May from the Highways |
| 8 | that note was put on there but if I did receive that | 8 | Department to MTR, which I imagine was then passed on to |
| 9 | request, then the joint inspection had already taken | 9 | you; is that right? |
| 10 | place. | 10 | A. That's correct. This is the one. |
| 11 | Q. So you don't recall there was a change of mind about | 11 | Q. Is this the letter you were referring to before lunch? |
| 12 | a joint inspection? | 12 | A. It is. |
| 13 | A. Well, no, the joint inspection had already taken place | 13 | MR PENNICOTT: Thank you very much. That's all I wanted to |
| 14 | in my view. | 14 | clarify. |
| 15 | Q. Had already? | 15 | So it's there, sir, if you want to look at it in due |
| 16 | A. Had already, yes. | 16 | course. |
| 17 | MR TSOI: Thank you very much, Mr Holden. That's all I wish | 17 | CHAIRMAN: Thank you very much. |
| 18 | to ask. | 18 | Cross-examination by MR BOULDING |
| 19 | MR BOULDING: I have some questions on one matter, sir. You | | MR BOULDING: Good afternoon, Mr Holden. I'm acting for MTR |
| 20 | might think it's more appropriate to deal with it after | 20 | and I've got one matter that I'd like to discuss with |
| 21 | lunch. | 21 | you, please. |
| 22 | CHAIRMAN: Yes, it sounds so. Thank you very much. | 22 | If we could go to your second witness statement, |
| 23 | Mr Holden, we are going to have lunch now. Because | 23 | which is in bundle CC at 3764. I think we'll find it |
| 24 | you are giving your evidence at the moment, you are not | 24 | starts there. Splendid. |
| 25 | entitled to discuss your evidence with anybody until it | 25 | Then can we go on, please, to paragraph 24(a) at |
| 23 | | 23 | |
| | Page 98 | | Page 100 |
| 1 | is completed; okay? | 1 | 3777. Scroll up, please. I want to see the top of the |
| 2 | WITNESS: Okay. | 2 | letter. |
| 3 | CHAIRMAN: Thank you very much. 2? | 3 | We ought to pick up the bottom of the previous page, |
| 4 | MR PENNICOTT: 2.15? | 4 | just to read Mr Holden into what he says: "Use of |
| 5 | CHAIRMAN: 2.15. Thank you. | 5 | couplers instead of lapping", then paragraph 24, |
| 6 | (1.01 pm) | 6 | "Leighton has disclosed to the Commission", then over |
| 7 | (The luncheon adjournment) | 7 | the page, please: |
| 8 | (2.16 pm) | 8 | "(a) drawings identifying the indicative locations |
| 9 | Further examination by MR PENNICOTT | 9 | within the NAT, SAT and HHS where couplers were adopted |
| 10 | MR PENNICOTT: Sir, good afternoon. Prof Hansford, good | 10 | instead of lapping to connect rebar" |
| 11 | afternoon. | 11 | Then we've got various references to a number of |
| | | | |
| 12 | Mr Holden, good afternoon. | 12 | documents; do you see that, Mr Holden? |
| 12 13 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one | 12 13 | A. I do, yes. |
| 13 14 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just | | - |
| 13 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some | 13 | A. I do, yes.Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: |
| 13 14 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just | 13 14 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous |
| 13 14 15 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some | 13 14 15 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous records of its use of couplers and lapped rebar at each |
| 13 14 15 16 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some questions regarding the current state of play in | 13 14 15 16 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous |
| 13 14 15 16 17 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some questions regarding the current state of play in relation to the shunt neck joint and the remedial | 13 14 15 16 17 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous records of its use of couplers and lapped rebar at each |
| 13 14 15 16 17 18 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some questions regarding the current state of play in relation to the shunt neck joint and the remedial proposals. | 13 14 15 16 17 18 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous records of its use of couplers and lapped rebar at each construction joint within the NAT, SAT and HHS." |
| 13 14 15 16 17 18 19 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some questions regarding the current state of play in relation to the shunt neck joint and the remedial proposals. In one of Mr Holden's answers, he referred to | 13 14 15 16 17 18 19 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous records of its use of couplers and lapped rebar at each construction joint within the NAT, SAT and HHS." It's that proposition I would like to discuss with |
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| 13 14 15 16 17 18 19 20 21 22 | Mr Holden, good afternoon. Before Mr Boulding continues, can I just mention one matter. During the course of Mr Holden's evidence just before lunch, Prof Hansford was asking him some questions regarding the current state of play in relation to the shunt neck joint and the remedial proposals. In one of Mr Holden's answers, he referred to a letter from RDO that was received at the end of last week, and I just wonder if I can show him what I believe to be the letter, just for the sake of getting it on the | 13 14 15 16 17 18 19 20 21 22 23 24 | A. I do, yes. Q. Then you have a footnote there, footnote 6, and if we can scroll down to see what that says: "Leighton was not obliged to keep contemporaneous records of its use of couplers and lapped rebar at each construction joint within the NAT, SAT and HHS." It's that proposition I would like to discuss with you A. Sure. Q if I could, please. |

Page 103 Page 101 1 Do you there see, Mr Holden, that we are in part of 1 "Approved/used construction materials and 2 the General Specification for Civil Engineering Works; 2 products ..." 3 3 do you see that? Do you see the reference there? 4 4 A. I can see that, yes. A. I can see that, yes. 5 Q. And that was part of the contract 1112 documentation, 5 Q. "... including, but not limited to, grade of concrete, 6 was it not? 6 movement joints, construction joints, waterproofing 7 7 A. I agree. membranes, structural bearing, cast-in structural 8 Q. We can see, can we not, that we are at the beginning of 8 brackets, pipework, cable works, and ductworks". 9 section 15, entitled "Document management"; correct? 9 Again, I suspect you'd agree with me that they are 10 A. Yes. 10 all important matters, are they not? 11 Q. If you would be kind enough to go on to C2131, and do 11 A. They are. 12 you there see clause G15.4.1? 12 Q. Then we can look at (e), "provisions for future 13 A. I do. 13 extensions", but perhaps that doesn't matter too much 14 Q. We can see, can we not, that the specification is 14 for present purposes. 15 talking about as-built drawings? 15 But I wonder if we could now go on in the bundle to 16 A. Sure. 16 B12534. Here we see, do we not, part of the Particular 17 Q. If I might be permitted to read into it: 17 Specification for contract 1112? 18 "On completion of the work, the Contractor shall 18 A. Yes. 19 compile and certify a set of as-built drawings for the 19 Q. And again I assume that you have seen this document 20 Engineer's Approval." 20 before? 21 A. Sure. 21 A. I've seen this, yes. 22 Q. Then you are told, are you not, that: 22 Q. And presumably you are familiar with its contents? 23 "The as-built drawings shall employ the Employer 23 A. Yes. 24 with a permanent record of each project features." 24 Q. For my present purposes, we can see, can we not, 25 Correct? 25 a definition of the phrase "as-built drawings" at the Page 102 Page 104 A. Correct. very top of the page? 1 1 2 Q. You would accept, I assume, that these are indeed 2 A. Sure. 3 important drawings? 3 Q. And reading, if I may: 4 4 A. Sure. Yes. "As-Built Drawings' means the drawings which are the 5 Q. Reading on, if I may: 5 as-built record of the Works incorporating all 6 "This set of record drawings shall consist of the 6 dimensioned amendments, changes modification and 7 7 alterations to the Works." following: 8 (a) actual locations, dimensions and structural 8 A. Sure. 9 details of the completed Works". 9 Q. "The Contractor shall provide As-Built Drawings in 10 10 accordance with General Specification Section 15." Were you aware of that requirement, Mr Holden? 11 11 Which of course we looked at two or three minutes A. Yes. 12 12 O. Then: ago. 13 "(b) actual method and sequence of construction and 13 14 installation". 14 Q. Then if we roll on, if we can, in that document to 15 Do you see that? 15 B12535, do you there see a clause P28.6? 16 A. I see that. I'm unsure how some of that would be 16 A. I can, yes. 17 reflected in the drawings, to be honest with you, but 17 Q. Reading that, if I may: 18 18 I see it's in the contract. "Notwithstanding the requirements elsewhere in the 19 Q. Yes, quite. And presumably Leighton would do its best 19 Contract for provision of records, the Contractor shall 20 20 to comply with the requirements of the contract, would submit all construction records in PDF format, required 21 it not? 21 for the preparation of a comprehensive Project Record, 22 A. Sure. 22 within 21 days or as soon as practicable after the 23 Q. Then: 23 completion of the activity to which the records relate." 24 24 "(c) left-in Temporary Works or permanent formwork". Presumably, you were aware of that, were you not, 25 Perhaps we can just skip that, but (d): 25 Mr Holden?

Page 105 Page 107 A. I wasn't aware of that condition, actually. 1 coupler is within the works and precisely how many. 1 2 2 Q. Well, I think we can read the clauses for ourselves and Q. Well, you are now. 3 3 A. Yes. what I've got to suggest to you is that Leightons were 4 Q. Just to finish that: 4 in fact required to keep contemporaneous records, 5 "Preliminary records shall be submitted within 5 including where couplers were used and lapped bars were 6 24 hours." 6 used at each of the construction joints within NAT, SAT 7 A. Mmm. 7 and HHS. That's what I'm suggesting to you, in the 8 Q. Then moving on, if I may, to 28.9: 8 light of the clear wording we have read together. 9 "Prior to substantial completion of the Works, the 9 A. You know, in my experience, it's not usual practice to 10 10 Contractor shall prepare, provide and submit As-Built be recording particularly the location of construction 11 Drawings or records as required under the Specification 11 joints or where you may have moved the location of a lap 12 to the Engineer for Approval and to the Government 12 on rebar within a continuous reinforcement structure. 13 departments and relevant authorities as required." 13 Similarly, using couplers in a location where -- in 14 14 place of a lap, which is in accordance with the code of So there we can see once again, can we not, the 15 15 reference to those as-built drawings which we discussed practice, can also be used. And generally that level of 16 a moment ago --16 information has not been updated in an as-built set of 17 17 A. Sure. drawings in the past. 18 Q. -- in the context of the General Specification. 18 Q. Well, you are talking about your personal experience. 19 Then if we could go to B12536, and here we are still 19 A. Yes. 20 in the Particular Specification; do you see that? 20 Q. That's exactly why I took you to the wording of the 21 21 specification, the General Specification and the 22 22 Q. You can pick that up at the top of the page. I don't Particular Specification. And what I suggest to you is, 23 want you to be disadvantaged. 23 notwithstanding your personal experience, having regard 24 A. "Operating and maintenance manuals and as-built 24 to the clear terms of those specifications, Leightons 25 drawings", PS/001, yes. 25 had an obligation to keep contemporaneous records, Page 106 Page 108 1 including where couplers and lapped rebars were used at 1 Q. Splendid. 2 2 each of the construction joints within the NAT, the SAT Let's have a look at clause P32.2: 3 3 and the HHS. Is that something you would accept? "Unless agreed with the Engineer, the Contractor 4 4 A. I have difficulty accepting that at the moment. The shall provide the Engineer as-built drawings for all the 5 General Specification I think is probably more related 5 Works with four hard copies and two electronic copies on 6 CD-ROMs in both MicroStation and PDF format. As-built 6 to proprietary products and if they've been used and 7 7 what were used for a product traceability exercise. drawings shall be prepared and submitted strictly in 8 accordance with the requirements of the Drawing and the 8 I can't see the purpose of having an as-built drawing to 9 CADD Manual." 9 show the exact location where a lap may be, because 10 10 structurally it doesn't matter. Similarly with Again, is that a clause that you had occasion to 11 11 read before? couplers. 12 Q. Well, we can look at clause G15.4.1 in due course and we 12 A. I am aware of that clause, yes. 13 Q. Having been through those documents, reminded you of 13 will make our submissions on that. 14 14 some of the terms, drawn to your attention some of the But thank you very much. 15 15 terms for the first time, what I suggest to you, A. Thank you. Cross-examination by MR CHOW 16 Mr Holden, is that contrary to what we saw you said in 16 17 your footnote 6, Leightons was indeed required to keep 17 MR CHOW: Chairman and Prof Hansford, I have a few questions 18 contemporaneous records. That's correct, is it not? 18 for Mr Holden. 19 A. I'm just not sure about the precise location of where 19 Good afternoon, Mr Holden. 20 20 A. Good afternoon. these couplers were used, because if you look at the 21 General Specification, I think it refers to construction 21 Q. I represent the government and we have a few questions 22 22 joint materials, couplers, that sort of thing, more like for you. 23 23 proprietary products which might appear on a general A. Sure. 24 24 Q. You recall that in your statement, you told us that you note on a drawing, rather than a precise location 25 exactly where these joints were made or where the 25 became the engineering manager in May 2017?

| | Page 109 | | Page 111 |
|--|--|--|---|
| 1 | A. That's right. | 1 | designed in the contract document, may not be strong |
| 2 | Q. And upon taking up that position, you were responsible | 2 | enough to hold the two structures together? Otherwise, |
| 3 | for various engineering matters | 3 | we don't need to specifically state that as |
| 4 | A. Sure. | 4 | a requirement; is that right? Is it logical? |
| 5 | Q of the project? | 5 | A. It's logical, yes. |
| 6 | A. That's right. | 6 | Q. Now, at the same time, we also see that there is |
| 7 | Q. We now know that the original joint 1, the original | 7 | a requirement for monitoring. |
| 8 | stitch joint 1, was built between 6 July 2017 and | 8 | If we now go to item 1.5 on the same page, item 1.5, |
| 9 | 2 August 2017. | 9 | for contractor 1111, it requires that contractor 1111 |
| 10 | A. Mm-hmm. | 10 | has to "provide access for 1112 contractor to install |
| 11 | Q. You can take it from me that we have evidence to show | 11 | monitoring points and carry out monitoring", and "To |
| 12 | that. | 12 | relocate the monitoring point installed at contract 1112 |
| 13 | A. Sure, yes. | 13 | area". |
| 14 | Q. And joint 2, the original stitch joint 2, was built | 14 | Can you see that? |
| 15 | between 26 July and 29 July 2017. So they were built | 15 | A. I can see that, yes. |
| 16 | after you have taken up the position as engineering | 16 | Q. And the corresponding obligation of the contractor for |
| 17 | manager. | 17 | contract 1112 is rather similar. It's: |
| 18 | A. Sure. | 18 | "To provide access for 1111 contractor to install |
| 19 | Q. But earlier you mentioned that you were not involved in | 19 | monitoring points and carry out monitoring. |
| 20 | the original stitch joint work, so is that the position? | 20 | To relocate the monitoring point installed at |
| 21 | A. That's correct. | 21 | contract 1111 area if affected by 1111 contractor's |
| 22 | Q. I would like you, if you don't mind, to help me | 22 | works." |
| 23 | understand better the real cause of water leakage in | 23 | Do you see that? |
| 24 | joint 1 and joint 2. Now, by joint 1, the convention is | 24 | A. I can see that, yes. |
| 25 | that it refers to the stitch joint at the interface of | 25 | Q. Now, the monitoring points here, is it right that it's |
| | 75 440 | | |
| | Page 110 | | Page 112 |
| 1 | NSL. | 1 | to monitor the movement of the structure on each side of |
| 2 | NSL. A. Correct. | 2 | to monitor the movement of the structure on each side of the stitch joint? |
| 2 3 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint | 2 3 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring |
| 2 3 4 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. | 2 3 4 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. |
| 2 3 4 5 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. | 2 3 4 5 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work |
| 2 3 4 5 6 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. Let's start with joint 1 first. First of all, | 2 3 4 5 6 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work has actually been carried out? |
| 2 3 4 5 6 7 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. Let's start with joint 1 first. First of all, I would like to refer you to the interface requirement | 2 3 4 5 6 7 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work has actually been carried out? A. I don't have any knowledge as to whether monitoring was |
| 2 3 4 5 6 7 8 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. Let's start with joint 1 first. First of all, I would like to refer you to the interface requirement at bundle BB1, page 420, please. | 2 3 4 5 6 7 8 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work has actually been carried out? A. I don't have any knowledge as to whether monitoring was carried out prior to the original construction, but |
| 2 3 4 5 6 7 8 9 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. Let's start with joint 1 first. First of all, I would like to refer you to the interface requirement at bundle BB1, page 420, please. The particular part of it can be found at page 424, | 2 3 4 5 6 7 8 9 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work has actually been carried out? A. I don't have any knowledge as to whether monitoring was carried out prior to the original construction, but I know that monitoring was carried out during the |
| 2 3 4 5 6 7 8 9 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. Let's start with joint 1 first. First of all, I would like to refer you to the interface requirement at bundle BB1, page 420, please. The particular part of it can be found at page 424, please. This is part of the interface requirement of | 2 3 4 5 6 7 8 9 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work has actually been carried out? A. I don't have any knowledge as to whether monitoring was carried out prior to the original construction, but I know that monitoring was carried out during the remedial works and is still being carried out presently. |
| 2 3 4 5 6 7 8 9 10 | NSL. A. Correct. Q. And joint 2 is the internal stitch joint A. Correct. Q of NSL. Let's start with joint 1 first. First of all, I would like to refer you to the interface requirement at bundle BB1, page 420, please. The particular part of it can be found at page 424, please. This is part of the interface requirement of the Particular Specification of the contract. | 2 3 4 5 6 7 8 9 10 11 | to monitor the movement of the structure on each side of the stitch joint? A. It would seem logical that that is what the monitoring points are for, yes. Q. Do you have any knowledge as to whether monitoring work has actually been carried out? A. I don't have any knowledge as to whether monitoring was carried out prior to the original construction, but I know that monitoring was carried out during the remedial works and is still being carried out presently. Q. I see. And earlier you also mentioned that there is |
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- 1 Q. So I have difficulty to understand, in such
- 2 circumstances, what is the point of doing monitoring?
- 3 A. Yeah, I'm not entirely sure -- I mean, it's really
- 4 a permanent works design requirement to see what the
- 5 permanent works would be capable of or what differential
- 6 settlement that it's designed for. But that's not
- within my knowledge or within Leighton's.
- 8 Q. All right. You mentioned in your statement that based
- 9 on your own observation, there is a gap or a crack. You
- 10 used the term "crack"?
- 11 A. That's right.
- 12 Q. But I would prefer to use "gap" because 5 to 10
- millimetres is quite wide in reinforced concrete. You
- mentioned this is what you have observed at joint 1, on
- the Gammon side of the stitch joint.
- 16 A. Exactly, yes.
- 17 Q. Would you agree with me that with a gap of that
- magnitude, it demonstrates that the structure on two
- sides of the stitch joint have moved or at least
- 20 relative to each other?
- 21 A. Agree, yes.
- 22 Q. Have you had a chance to look at the design, the
- original design of the stitch joint, to see if the
- 24 reinforcement -- on the assumption that the couplers'
- 25 connection had been properly connected, would it be able

- 1 A. Not personally.
- 2 Q. So it seems to me that the real cause of the crack or
 - the water seepage perhaps -- of course I don't know for
- 4 sure -- was due to the excessive movement of the two
- 5 structures. That is also a possibility; would you
- 6 disagree?

3

- 7 A. That's true. It's the crack which is caused by the
- 8 differential movement, yes.
- 9 Q. And this is -- it means it is also a possibility that 10 the stitch joint was constructed too early, before the
- structure on both sides of the stitch joint had
- 12 stabilised.
- 13 A. I would say that's unlikely, only because we did
- 14 construct at some time after, I think nine months after
- the original construction, which -- the backfilling had
- been completed, including the groundwater recharge.
- 17 It's more likely that it's due to the fact that the
- couplers weren't connected.
- 19 Q. Okay. But it is something that if one wants to make
- sure as to look into the design and to check the
- 21 monitoring reading at the time of the construction of
- the stitch joint --
- 23 A. Sure.
- 24 Q. -- to ascertain the degree of settlement at that
- able 25 stage

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- 1 to prevent the relative movement of the two structures?
- 2 You haven't checked that, right?
- 3 A. I'm not sure. That's not within our scope to check that
- 4 work. But I assume that that's what it was designed
- 5 for, yes.
- 6 CHAIRMAN: Sorry, I probably misheard. I think the
- 7 transcription team may have misheard to. To prevent the
- 8 something movement -- it sounded like a technical --
- 9 MR CHOW: Relative movement of the two structures on each
- side of the stitch joint.
- 11 CHAIRMAN: All right. So it's "relative" movement?
- 12 MR CHOW: Yes.
- 13 CHAIRMAN: Thank you.
- 14 MR CHOW: It must have been my fault.
- Based on what you have told us, it seems to me --
- I'm not sure that my understanding is correct or not --
- first of all, we don't know -- we are convinced -- or
- what you told me is the fact that we have a requirement
- in the contract requiring the contractor to do the
- stitch joint only after the settlement is stabilised
- 21 suggests that the reinforcement itself was not enough or
- strong enough to hold the two structures together.
- 23 Secondly, you just confirmed with us that you so far
- 24 have had no chance to really look at the design of the
- 25 reinforcement details.

- 1 A. Yes.
- 2 Q. -- before one can really conclude the real cause of
- 3 a gap?
- 4 A. Yes, but to be clear, we don't know anything about the permanent works design and we haven't designed it for
- 6 any -- or taken any consideration for differential
 - movement.
- 8 Q. Okay. I would now want to turn to joint 2.
- 9 A. Sure.

7

18

- 10 Q. Earlier, you also mentioned that based on your
- observation there was no crack --
- 12 CHAIRMAN: Sorry, just so I understand -- you have not
- designed it or taken into consideration in respect of it
- matters of differential movement?
- 15 A. It's not our design. It's permanent works design, so
- it's the DDC designer, Atkins, working under MTRC.
- 17 CHAIRMAN: Thank you.
 - So the design that you worked on from Atkins had
- nothing there that required you to take action in
- respect of differential movement?
- 21 A. No. There was no information on that.
- 22 CHAIRMAN: Okay.
- 23 MR CHOW: Mr Holden, I will now turn to joint 2.
- 24 A. Sure.
- 25 Q. Earlier, you also mentioned that you observed -- well,

Page 117 Page 119 1 there was no crack formed in joint 2. 1 waterproofing measures, that is not the fault of Wing 2 2 & Kwong -- was it? 3 Q. But nevertheless there was water seepage. 3 A. I'm not entirely sure, but one of the things I mentioned 4 4 in relation to Mr Pennicott's question earlier was A. Mm-hmm. Q. So your view at the time is that it was caused by 5 a contributing factor could have been the void in the 5 6 failure in the waterproofing system? 6 roof, which is not contributable to Wing & Kwong, 7 7 I agree. A. The permanent waterproofing system, yes. 8 Q. I just want to understand more about the cause. In the 8 Q. Okay. 9 first part of this Inquiry, we had experts in structural 9 A. So if the waterproofing members, the PVC joint, aren't 10 10 embedded in concrete adequately, then it will be engineering. 11 A. Sure. 11 ineffective, which is not related to the reinforcement, 12 Q. According to my recollection, the message that we have 12 I agree. 13 got from the expert in relation to the behaviour of the 13 Q. Thank you. 14 14 reinforcement inside the concrete -- perhaps you can Can I now move on to your second statement, 15 15 paragraph 22(m). In paragraph 22, you provide in tell me whether my understanding is right or wrong --16 16 summary form the steps and procedures involved in the now, reinforcing bar cast or embedded in concrete, if 17 17 that part of the structure is not under tension, the rebar fixing works and concreting works in the 18 18 reinforcing bar would not be stretched and would not be construction of NAT, SAT and HHS. Then you set out in 19 mobilised. 19 various subparagraphs the various steps. I would like 20 A. Mm-hmm. 20 you to focus on subparagraph (m). 21 21 Q. Is that --A. Sure. 22 22 A. I'm not a structural engineer so I'm not going to Q. Where you said, "ordering threaded bar and couplers from 23 comment on that. 23 the relevant sub-contractor", and then you put within 24 24 Q. Sorry. In that case, if the two structures on each side brackets "(Leighton)"; do you see that? 25 of the stitch joint have not moved, and then Leighton 25 A. That's correct, yes. Page 118 Page 120 1 Q. So your understanding is that at the time it was came and cast the stitch joint in between --1 2 2 Leighton's staff who was responsible for ordering A. Mm-hmm. 3 3 Q. -- and thereafter both sides still remained stationary, threaded bars; is that right? 4 4 ie didn't move at all. It appears to me that the fact A. We had the supply agreements with the threaded bar and 5 5 that the couplers are properly connected or not coupler suppliers, yes. 6 connected does not make any difference. Do you agree? 6 Q. So, in the case of a stitch joint, would it be -- you 7 7 A. Does not make any difference in relation to the water have carried out investigation, by now you know that the 8 8 engineer responsible for that part of the work was Henry leakage? 9 Q. Well, in terms of -- the reinforcing bar will remain 9 Lai? 10 10 A. Correct. inside the concrete, embedded in concrete, not subject 11 Q. So he would be the one responsible for placing order of 11 to any tension force; right? 12 these threaded bars required to be screwed into Gammon's 12 A. Mm-hmm. 13 Q. So even if the couplers are not connected at all, in 13 couplers; right? 14 terms of structural behaviour, it makes no difference; 14 A. Correct. 15 15 do you agree with me? Q. Have you, during your investigation or before today, A. The structure wouldn't be taking any load if there is no 16 have you got a chance to talk to Henry Lai as to why he 16 17 movement; is that the point you are trying to get to? 17 failed to notice that the couplers used by Gammon was 18 18 a different brand of coupler? Q. That's right, yes. Do you agree that this is 19 a reasonable interpretation? 19 A. Sorry, repeat that question again. 20 20 Q. Before today, have you got a chance to talk to Henry Lai A. It seems logical, yes. 21 Q. So the fact that there was water leakage is not 21 as to why he failed to order a properly threaded bar for 22 22 necessarily related to whether the couplers were the purpose of screwing into Gammon's couplers? 23 23 connected or not; do you agree with me? A. He has mentioned to me that he wasn't aware, at that 24 24 point in time, that they were a different coupler. A. That's correct, yes. That's right. 25 Q. Okay. So if it is purely caused by the failures in the 2.5 Q. So you would not expect Wing & Kwong to place order of

Page 123 Page 121 1 perhaps confirm whether this is the kind of location in this threaded bar, did you? 1 2 which the couplers were used. Bundle CC10, page 6175, 2 A. Wing & Kwong provide a material list, a shopping list, 3 3 of what they require to the Leighton engineer. We have please. 4 4 COMMISSIONER HANSFORD: Sorry, while we are getting that the agreements with the suppliers; we place the order. 5 can I just understand -- so typically you would have 5 Q. Okay. So would you have expected Wing & Kwong to 6 specifically mention about tapered-thread bar to be 6 used couplers, because otherwise there would have been 7 starter bars coming out the ground --7 procured? 8 8 A. I couldn't comment on that. I'm not sure how Wing A. Exactly. 9 COMMISSIONER HANSFORD: -- which would have obstructed 9 & Kwong normally did their orders with the engineer. 10 10 access; is that the logic? I wouldn't know. 11 Q. Okay. 11 A. We had -- because the site, and you have been there, is 12 Paragraph 26 of your second statement, where you 12 actually on the other side of the construction site, so 13 13 talk about the replacement of laps with couplers. we needed to have a track or road, for road vehicles to 14 14 get through the site, and also for our own logistics of A. Yes. 15 15 dump trucks and excavators and cherry-pickers and so on. Q. In paragraph 26, under the third line, you said: "Laps were indicated on the approved design at the 16 We need to have thoroughfares to access the works, not 16 17 17 only for our own works but for designated contractors junctions between slab and wall elements." 18 which were installing buildings services on the existing 18 Do you see that? 19 19 A. Yes. That's generally the case for those locations, 20 20 So one of the constraints was we needed to have yes. 21 access routes across this 400 by 400 metre long 21 Q. Can I just quickly show you a drawing to see whether 22 this is the kind of lap that you are referring to. 22 continuous concrete structure and to facilitate that we 23 23 Bundle DD8, page 11305, please. used couplers at the base of walls so that when we cast 24 24 Do you see that on the top of the page, in the the base slab, vehicles could travel over the top, when 25 middle, we see there are two details, which seem to show 25 they were backfilled, to protect it, so --Page 122 Page 124 the wall base -- wall base detail. COMMISSIONER HANSFORD: So if you had not --1 2 A. It's a typical detail for a slab-to-wall connection, 2. A. -- construct the walls later. 3 COMMISSIONER HANSFORD: So if you had not made that 3 4 provision, you would have had all these starter bars 4 Q. If you look at the one on the left, we see a marking 5 coming up at, whatever they are, 150 centres --5 which says, "See note 2"; do you see that? 6 A. "LL see note 2", yes. 6 A. Exactly. 7 COMMISSIONER HANSFORD: -- and you would have had no access 7 Q. Do you see that? 8 8 A. Yes. 9 A. That's right. Or difficult to access. You can bend 9 Q. LL stands for lap length? 10 down bars in these locations, but it's preferable to 10 11 Q. So this is the kind of lap that you said was specified 11 have couplers because you are damage the bars and they 12 are in the way, you need to ramp over the top, and 12 or shown in the approved design? 13 13 A. Yes. certain diameters can't be bent obviously. 14 COMMISSIONER HANSFORD: And that's the primary situation 14 Q. So this is what's shown in the accepted drawings. where couplers were used where on the drawings it shows 15 Now, what you have or what Leighton has replaced by 15 16 couplers -- is it at the connection between walls like 16 lapped bars? 17 A. Different cases. There's three situations where we use 17 that and the base? 18 couplers in lieu of laps. HHS is generally that 18 A. Generally, the couplers were used in HHS. I think this 19 is an excerpt from one of the AECOM drawings which 19 situation --20 COMMISSIONER HANSFORD: Yes. 20 relates to HHS, although that detail potentially looks 21 like it's an accommodation block, but we use couplers at 21 A. -- to facilitate logistics. 22 22 NAT we had two situations. One is -- actually, the stem of the wall, in the trough walls of the track 23 23 three. There's logistics to get access across the EWL slabs in HHS reasonably extensively, for reasons of 24 24 which cut the site in half. We needed to get access access -- access, logistics constraints, and so on. 25 Q. Can I quickly refer you to another drawing and you can through the trough walls. We used couplers in those

| 1 | Page 125 | | Page 127 |
|--|---|--|--|
| | locations. We also used couplers at NSL where we had | 1 | COMMISSIONER HANSFORD: And you said this is a draft |
| 2 | clashes with the ELS, the strutting from the cofferdam. | 2 | as-built? |
| 3 | So where they were set at a level, we needed to continue | 3 | A. Yes, so we provided these to MTRC as a draft as-built, |
| 4 | and build the permanent structure within the cofferdam, | 4 | with indicative locations, because the situation we have |
| 5 | and where the starter bars clashed with the strut, above | 5 | is we don't know the precise location of where we use |
| 6 | the structure that was being cast, we used couplers in | 6 | couplers. |
| 7 | those locations. | 7 | COMMISSIONER HANSFORD: Right. |
| 8 | COMMISSIONER HANSFORD: So that's just where the strut came | 8 | A. We have a general idea, but because we didn't keep the |
| 9 | through? | 9 | contemporaneous records we didn't think we were |
| 10 | A. Exactly, so there's a metre or a 2 metre section of the | 10 | required to we don't have that information |
| 11 | wall where we used couplers. The alternatives are, | 11 | 100 per cent accurate. We relied on photo records, |
| 12 | okay, you can bend bar but that's very difficult because | 12 | people's memory to mark up a draft as-built set of |
| 13 | you had to bend it back. You can burn a hole in | 13 | drawings and provide them for information, whether it's |
| 14 | the strut but that's not desirable because you have to | 14 | couplers or laps; we see they are interchangeable. |
| 15 | make sure the design is adequate with holes within the | 15 | COMMISSIONER HANSFORD: So this in some ways goes to |
| 16 | webs of these steel members. | 16 | Mr Boulding's questions to you earlier about what was |
| 17 | The other situation we used couplers in the NAT is | 17 | included on the as-builts? |
| 18 | in the base slab and in the roof slabs there was up to | 18 | A. That's right. So we attempted to compile |
| 19 | three layers in the top and bottom mat, and if you're | 19 | COMMISSIONER HANSFORD: So this is a typical detail of |
| 20 | doing one bay and then you cast that and you leave laps, | 20 | an as-built rather than a specific location? |
| 21 | it's very difficult to put the bar that goes at | 21 | A. On layout plans, which are part of this drawing set, |
| 22 | 90 degrees to those within those bars for the adjacent | 22 | we've included indicative locations where we have |
| 23 | bay or the subsequent bay. | 23 | photos, where we know we've got couplers, but we can't |
| 24 | So what we did generally was the base bar that was | 24 | say that covers every single coupler that we've used on |
| 25 | running longitudinally to the structure we used as | 25 | the job. |
| | Page 126 | | Page 128 |
| 1 | a lap, and then the bars for, say, second and third | 1 | COMMISSIONER HANSFORD: I see. Thank you. |
| 2 | layer above we used couplers, so we could easily work | 2 | MR CHOW: Mr Holden, can I ask, the couplers that Leighton |
| | from the bottom up with the bars that ran across the | | Wife Circ VV. Will Holden, can't ask, the couplers that Beighton |
| 3 | r | 3 | used to replace the laps are the non-ductile couplers, |
| 3 4 | structure. | 3 4 | |
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- 1 platform slab and the diaphragm wall we have ductile
- 2 couplers being used?
- 3 A. In some locations, not in all. I believe in the
- 4 diaphragm wall there is a clear requirement for ductile
- 5 couplers, but the slab 2 diaphragm wall, not exactly
- 6 clear what the requirement is.
- 7 Q. And you are aware -- or are you aware of the specific
- 8 requirements in terms of supervision imposed by the
- 9 government in relation to the installation of the
- 10 ductile couplers?
- 11 A. Ductile and non-ductile, yes. Ductile, yes.
- 12 Q. Also non-ductile couplers, there is also a certain level
- 13 of supervision required for those non-ductile couplers
- 14 as well?
- 15 A. I understand.
- 16 Q. From my recollection, although it is a lower level of
- 17 supervision, we still need the contractor to provide
- 18 full-time supervision and need the contractor to assign
- 19 a specific person as the quality control coordinator?
- 20 A. Sure.
- 21 Q. And to keep records of what he has inspected, the day,
- 22 time and what he has looked at, for those non-ductile
- 23 couplers?
- 24 A. Sure.

1

25 Q. In terms of quality control and quality assurance, do

you agree with me, for the extra couplers that you used

- Page 130
- 2 to replace the lap, I cannot see any reason that even
- 3 lower level of supervision -- or we don't need the same
- 4 level of supervision to be provided to those other
- 5 couplers, albeit non-ductile, but shown in the original
- 6 accepted drawings. Can you think of any reason why the
- 7 contractor does not need to provide the same level of
- 8 supervision?
- 9 A. We are aware of the requirements. It's a statutory
- 10 requirement that we need to have a TCP T1 carrying out
- 11 the inspection, and there is a requirement for a
- 12 log book which should be available for inspection if
- 13 required, yes.
- 14 Q. Can I take it that in your opinion, for the additional
- 15 couplers that Leighton used to replace the lap, Leighton
- 16 ought to provide at least the same level of supervision
- 17 as those for the non-ductile couplers used in, for
- 18 example, platform slab?
- 19 A. I would say we provide supervision for the works, and
- 20 the people that were supervising the works were T1
- 21 equivalent, or greater.
- 22 Q. So your answer so my question is "yes"?
- 23 A. Yes, we ...
- 24 Q. But you don't know, as a matter of fact, whether the
- 25 same level of supervision has been provided by Leighton

1 in relation to these extra couplers?

- 2 A. For these, we do. Our supervisor, our engineers, who
 - are responsible for the works, are TCP T1 level and they
- 4 have carried out inspection and supervision of the
- 5 works.

3

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11

17

- 6 Q. Okay. How about the inspection records, date, time, 7 identity of inspector, record set out in log books to be
- 8 kept on site; have you seen those documents?
 - A. I think, as we know, we are those for the diaphragm
- 10 wall. We don't have any log book as such, but we do
 - have some RISC forms.
- 12 Q. My last question is in relation to Henry Lai. Now, you
- 13 have -- after this water seepage was discovered, after
- 14 your investigation, you no doubt at that stage realised
- 15 that Henry Lai is the person who was responsible for the
- 16 inspection of those works; right?
 - A. Yes. On our side, yes, on Leighton's side, for and on
- 18 behalf of Leighton.
- 19 Q. Yes, for and on behalf of Leighton. And you have also
- 20 looked at -- after you exposed certain locations of the
- 21 stitch joint, you looked at how the defective work was
- 22 like, what it was like. It was pretty obvious to you or
- 23 to even a junior engineer to realise that there must be
- 24 something wrong; do you agree with me?
- 25 A. Yes. We've seen the photos. It's --

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- 1 Q. We are now told that Henry Lai was promoted shortly
- 2 after this matter was discovered.
- 3 A. Sure.
- 4 Q. Did it surprise you?
- 5 A. No, not particularly. I wasn't involved in his
- 6 promotion or his review. He wasn't directly reporting
- 7 to me at that point in time, so I wasn't really actually
- 8 aware of his position prior or after. So I can't really
- 9 comment as to whether I was surprised or not.
- 10 MR CHOW: I have no more questions for you. Thank you very
- 11

15

- 12 WITNESS: Thank you.
- 13 MR LIU: I have no questions.
- 14 CHAIRMAN: Thank you.
 - Re-examination by MR SHIEH
- 16 MR SHIEH: Just very briefly by way of re-examination.
- 17 Mr Holden, you remember being asked by Mr Chow
- 18 behind me about relative movement between the two
- 19 structures on 1111 and 1112?
- 20 A. Yes.
- 21 Q. You remember being asked about monitoring?
- 22 A. Yes.
- 23 Q. The broad point, as I understand, put by Mr Chow was
- 24 whether or not there could -- whether or not it was
- 25 possible for the cracks to be formed because of relative

| evidence, Mr Holden, Mr Shieh took us to an organisation chart. Can we go back to that chart. I don't know what number it is. MR SHIEH: CC2/526. COMMISSIONER HANSFORD: If we look in the green area to the left, we see "Interface manager Anthony Yam"? A. Yes. COMMISSIONER HANSFORD: Did he have any role in relation to the interface between 1111 and 1112? A. No. Anthony Yam is an E&M background. At this period 14 Inquiry? A. Yes. Right. Q. Thank you. In terms of organisation chart, please look at CC2, page 526. You can see the blue "MTRC" box on top; yes? 19 A. Mmm. 20 Q. And if you look at maybe around 4 o'clock to "MTRC", you can see yourself, "Project manager Joe Tam"; do you see that? 23 A. Yes. | | Page 133 | | Page 135 |
|--|--|---|---|--|
| 3 Q. Do you remember that line of questioning? 4 A. Yes. 5 Q. I want to ask you first of all: are you personally aware of which entity was responsible for monitoring the question of settlement or the two structures? 5 A. I'm not sure about this specific location, because 10 I wasn't – but Leighton do have a responsibility for 11 monitoring. 6 A. I'm sure there's a requirement to do both, but looking at the Particular Specification that was on there earlier, it seems like there is some obligation to be doing monitoring but across the joint. 6 Q. Scondly, do you know which entity had the responsibility of making the decision that construction of the stitch joint could commence? 6 A. Ultimately, it must be MTRC, because they are approval. 7 A. Ultimately, it must be MTRC because they are approval. 8 A. I'm sure fare's a representation to a differential settlement, they ultimately need to give approval. 9 A. What is an interface manager? 9 A. I'm suproval and including many than the projects, sorry. So it's more of a coordination role that will ficilitate meetings between the different jobs — different projects, sorry. So it's more of a coordination role that will ficilitate meetings between the different jobs — different projects, sorry. So it's more of a coordination role that will ficilitate meetings between adjacent commences and projects and the particular requirements working adjacent to or on it involved in was interface waits the liver railway. So we have one of the jobs that the interface manager? 9 A. Ves. 10 COMMISSIONER HANSFORD: Bigh at the beginning of your evidence, the HIMSFORD: I was not many to the present and the project statement, and your signature appears on that page? 1 A. Ves. right. 1 COMMISSIONER HANSFORD: Bigh at the beginning of your evidence, the filter analyse and the project statement to the live railway. So we interface manager? 1 A. Ves. right. 2 COMMISSIONER HANSFORD: Bigh at the beginning of your evidence completed. Thank you for CHARMAN. Good. Thank you for CHARMAN. Good. Thank y | 1 | movement between the two structures. | 1 | for the building services. So his primary role was |
| 4 A. Yes. 5 Q. I want to ask you first of all: are you personally aware of which entity was responsible for monitoring the question of settlement or extent of settlement of the two structures? 9 A. I'm not sure about this specific location, because 10 I wasn't - but Leighton do have a responsibility for monitoring. 12 Q. Right. For the 1112 structure or the 1111 structure? 13 A. I'm sure there's a requirement to do both, but looking at the Particular Specification that was on there 15 earlier, it seems like there is some obligation to be doing monitoring but caross the joint of the stitch joint could commence? 14 a very short one of the stitch joint could commence? 15 earlier, it seems like there is some obligation to be 16 edoing monitoring but caross the joint of the stitch joint could commence? 16 responsibility of making the decision that construction of the stitch joint could commence? 17 a commission of laquiry part 2, you have made three witness statements. Can 1 first ask you to look at bundle CC1, page 81. 1 questions. 10 questions. 11 questions. 12 Q. MR SHIEH: Thank you very much. I have no further 22 a pervoval. 23 MR SHIEH: Thank you very much. I have no further 24 approval. 24 A. It's a person that's on the project that looks a differential settlement, they ultimately need to give approval. 25 MR SHIEH: Thank you very much that will facilitate meetings a differential settlement they ultimately need to give approval. 26 COMMISSIONER HANSFORD: I just have one question. 27 Q. This is your fourth witness statement, and your signature appears on that page? 28 A. Yes. 29 Q. That is your fourth witness statement, and your signature appears on that page? 30 A. Yes. 31 Q. Do you pur forward the content of these three witness statement is on unaber it is. 32 Q. This is your fourth witness statement, and your signature appears on that page? 33 A. Fas person that's one of the jobs that the interfine manager was 10 inclosed in was interface winds withing a fair amount of 10 inclosed in was interface. Mr holder | 2 | A. Yes. | 2 | facilitating their works in parallel with ours. That |
| 5 Q. I want to ask you first of all: are you personally aware of which entity was responsible for monitoring the question of settlement or extent of settlement of the two structures? A. Tim not sure about this specific location, because I wasn't but Leighton do have a responsibility for monitoring. Q. Right, For the 1112 structure or the 1111 structure? A. Tim sure there's a requirement to do both, but looking at the Particular Specification that was on there earlier, it seems like there is some obligation to be doing monitoring but across the joint. Q. Secondly, do you know which entity had the responsibility of making the decision that construction of the stitch joint could commence? A. Ultimately, it must be MTRC, because they are exponsible for the permanent works design. In the absence of any other specific requirement to do a differential settlement, they ultimately need to give approval. MR SHIEH: Thank you very much. I have no further page 134 A. It's a person that's on the project that looks after-conclinates between the different jobs - different projects, sorry. So it's more of a coordination role that will facilitate meetings between adjacent corractes, particularly on this job, where one of the jobs that the interface manager? A. It's a person that's on the project that looks after-conclinates between different jobs - different projects, sorry. So it's more of a coordination role that will facilitate meetings between adjacent corractes, particularly on this job, where one of the jobs that the interface manager was involved in was interface with the live railway. So we that was his role. COMMISSIONER HANNFORD: If we look in the green area to the left, we see "Interface manager Anthony Yam"? MR SHIEH: The next we take with as sincerically on the page 2. A. Yes. A. Yes. Sight. O. I think we can start while you wait for your water. A. (In English) Yes, day. Q. Mr Tam, thanks very much for coming. For the purposes of this Commission of Inquiry part. A, the purpose of this your third wi | 3 | Q. Do you remember that line of questioning? | 3 | was his role at the time. |
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| 7 CHAIRMAN: That's your evidence completed. Thank you for two structures? 8 Lives structures? 9 A. I'm not sure about this specific location, because 10 I wasn't – but Leighton do have a responsibility for monitoring. 12 Q. Right. For the 1112 structure or the 1111 structure? 13 A. I'm sure there's a requirement to do both, but looking 1 at the Particular Specification that was on there 1 earlier, it seems like there is some obligation to be 1 doing monitoring but across the joint. 17 Q. Secondly, do you know which entity had the 1 responsibility of making the decision that construction of the sitch joint could commence? 18 The specific requirement to do a differential settlement, they ultimately need to give a approval. 19 The specific requirement to do a differential settlement, they ultimately need to give a paproval. 20 A. What is an interface manager? 21 The specific requirement to do a differential settlement, they ultimately need to give approval. 22 The specific requirement to do a differential settlement, they ultimately need to give approval. 23 The specific requirement to do a differential settlement, they ultimately need to give approval. 24 The specific requirement to do a differential settlement, they ultimately need to give approval. 25 The specific requirement to do a differential settlement, they ultimately need to give approval. 26 This is you third winness statement. And if you can turn to page 87, we can see your signature on that page? 27 The sis your fourth winness statement, do you see that? 28 A. Yes. 29 What is an interface manager? 30 This is your fourth winness statement, and you see that? 31 The special set of the properts have been departed in the different jobs - after-faced makes ever thin the liver allows, so we involved in was interface with the liver allows, so we involved in was interface with the liver allows, so we involved in was interface with the liver allows, so we involved in was interface with the liver allows, so we involved in was interface with the liver allows, so | 5 | Q. I want to ask you first of all: are you personally aware | 5 | CHAIRMAN: Good. Thank you, Mr Holden. |
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| 1 | Page 137 | | Page 139 |
|---|---|---|---|
| 1 1 | A. Yes. | 1 | such as the stitch joints? |
| 2 | Q. Thank you very much. There is one very small point | 2 | A. (Chinese spoken). |
| 3 | which was touched on during one of the earlier | 3 | Q. Could you repeat your answer, please? |
| 4 | examination of witnesses. CC6. Can I ask you to look | 4 | A. "Yes". |
| 5 | at CC6 again, at 3785. This is your fourth witness | 5 | Q. Does it follow from that, Mr Tam, that you are familiar |
| 6 | statement, paragraph 5. Do you see that? Paragraph 5. | 6 | with the interface requirements that are set out in the |
| 7 | A. Yes. | 7 | contract between MTRC and Leighton? |
| 8 | Q. If you look at the third line, there's a sentence which | 8 | A. Well, I know about that. |
| 9 | starts: | 9 | Q. Because I'd like to look with you, please, at part of |
| 10 | "I spoke to every team under my supervision." | 10 | those requirements. If we could go to BB1/420. |
| 11 | I think, in one of the earlier questions put by one | 11 | On the front sheet, if you just stick at page 420 |
| 12 | of the counsel for some party I think Mr Pennicott | 12 | for the moment, Mr Tam |
| 13 | MR PENNICOTT: It was me. | 13 | A. (In English) Yes. |
| 14 | MR SHIEH: he read the sentence, "I spoke to every team | 14 | Q that's appendix Z2, "Interfacing requirements |
| 15 | under my supervision", and he thought that what you | 15 | specification with civil contracts"? |
| 16 | meant was "every team member under my supervision", but | | A. Yes. |
| 17 | do you actually mean "every team" or "every team | 17 | Q. No doubt it's some time since you looked at this |
| 18 | member"? | 18 | document, but are you generally familiar with it and |
| 19 | A. Yes, every team. There are a number of members in each | 19 | were you familiar with it back in 2016/2017? |
| 20 | team but I didn't talk to every single one, but I talked | 20 | A. I read it. |
| 21 | with the leaders and the responsible persons. | 21 | Q. Could I ask, please if we go to the next page, and |
| 22 | MR SHIEH: Thank you very much. Please remain in the | 22 | one more, please and what it says here, Mr Tam, is: |
| 23 | witness box. Mr Pennicott for the Commission may have | 23 | "This interface requirements specification |
| 24 | questions for you, and other counsel may also ask you | 24 | identifies the primary interfaces that are anticipated |
| 25 | questions, and Mr Chairman and Commissioner would also | 25 | to arise between Contract 1111 and Contract 1112 during |
| | Page 138 | | Page 140 |
| 1 | have their questions for you. After that, I may or may | 1 | the execution of the Works and sets out their respective |
| 2 | not have follow-up questions for you. So please answer | 2 | responsibilities and obligations in respect of such |
| 3 | all those questions. | 3 | interfaces." |
| 4 | WITNESS: I know that. | 4 | If we could scroll down, please, and stop there. At |
| 5 | Examination by MR PENNICOTT | 5 | Z1.6 it says: |
| 6 | MR PENNICOTT: Good afternoon, Mr Tam. | 6 | "This document has been developed on the basis of |
| 7 | A. Yes, hi. | 7 | |
| | | | the following construction sequence: |
| 8 | Q. Thank you very much for coming to give evidence to the | 8 | the following construction sequence: Cofferdam wall installation at the interface will |
| 8 9 | Q. Thank you very much for coming to give evidence to the Commission this afternoon. | 8 9 | · · · · · · · · · · · · · · · · · · · |
| | | | Cofferdam wall installation at the interface will |
| 9 | Commission this afternoon. We saw on the organisation chart just a moment ago, which was for May of 2017, that you were described as | 9 | Cofferdam wall installation at the interface will be completed by Contract 1111 ahead of the interfacing |
| 9 10 11 12 | Commission this afternoon. We saw on the organisation chart just a moment ago, which was for May of 2017, that you were described as the project manager. My understanding is that you were | 9 10 | Cofferdam wall installation at the interface will be completed by Contract 1111 ahead of the interfacing Contract 1112 works. Completion of the tunnel connections will be by Contract 1112." |
| 9 10 11 | Commission this afternoon. We saw on the organisation chart just a moment ago, which was for May of 2017, that you were described as the project manager. My understanding is that you were the construction manager. Is that right? | 9 10 11 | Cofferdam wall installation at the interface will be completed by Contract 1111 ahead of the interfacing Contract 1112 works. Completion of the tunnel connections will be by |
| 9 10 11 12 13 14 | Commission this afternoon. We saw on the organisation chart just a moment ago, which was for May of 2017, that you were described as the project manager. My understanding is that you were the construction manager. Is that right? A. Yes, construction manager. | 9 10 11 12 13 14 | Cofferdam wall installation at the interface will be completed by Contract 1111 ahead of the interfacing Contract 1112 works. Completion of the tunnel connections will be by Contract 1112." Obviously we will be discussing that in a moment, and then: |
| 9 10 11 12 13 | Commission this afternoon. We saw on the organisation chart just a moment ago, which was for May of 2017, that you were described as the project manager. My understanding is that you were the construction manager. Is that right? A. Yes, construction manager. Q. And you were the construction manager for the NAT area | 9 10 11 12 13 14 15 | Cofferdam wall installation at the interface will be completed by Contract 1111 ahead of the interfacing Contract 1112 works. Completion of the tunnel connections will be by Contract 1112." Obviously we will be discussing that in a moment, and then: " Utilities crossing the interface will have |
| 9 10 11 12 13 14 15 16 | Commission this afternoon. We saw on the organisation chart just a moment ago, which was for May of 2017, that you were described as the project manager. My understanding is that you were the construction manager. Is that right? A. Yes, construction manager. Q. And you were the construction manager for the NAT area of the site from January 2015 to July 2017; is that | 9 10 11 12 13 14 15 16 | Cofferdam wall installation at the interface will be completed by Contract 1111 ahead of the interfacing Contract 1112 works. Completion of the tunnel connections will be by Contract 1112." Obviously we will be discussing that in a moment, and then: " Utilities crossing the interface will have connection points constructed by the first Contractor to |
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| 1 | Page 141 | | Page 143 |
|--|--|---|---|
| 1 | Structural interfaces; | 1 | this. |
| 2 | Temporary works interfaces; | 2 | Q. Right. So you personally are not aware of whether there |
| 3 | Tunnel drainage interfaces; | 3 | was in fact any such joint inspection? |
| 4 | Utility interfaces | 4 | A. Talking about inspection, were you talking about |
| 5 | Testing and commissioning interfaces." | 5 | waterproofing system and couplers? |
| 6 | Just to put this point to you, so that everybody is | 6 | Q. I am, yes, about this, what this says on this piece of |
| 7 | under no illusions, the stitch joints we are going to | 7 | paper here. |
| 8 | discuss in a moment were just one of the interface | 8 | A. I didn't know whether such joint inspections were |
| 9 | matters. There were a number or a broad range of | 9 | conducted. |
| 10 | interface issues that you were also responsible for; is | 10 | Q. Did you not regard it as part of your responsibilities |
| 11 | that right? | 11 | as the construction manager to ensure that there was |
| 12 | A. Yes. Yes. | 12 | such a joint inspection? |
| 13 | Q. We heard from one of your former colleagues yesterday, | 13 | A. Well, on a daily basis, there were many joint |
| 14 | Ms Wong, who talked to us a little bit about the | 14 | inspections. I was not told to join these joint |
| 15 | cofferdam, and she said that this is one of the more | 15 | inspections, so I don't know whether these took place. |
| 16 | important issues, and perhaps that's something you agree | 16 | Q. All right. |
| 17 | with is it, Mr Tam? | 17 | If we could go back to the organisation chart, |
| 18 | A. Yes. Yes. | 18 | please, at CC2/526, and if we just go up very slightly. |
| 19 | Q. If we could then go on to the next page, please, and if | 19 | That's fine, that's good, thank you. Perhaps we could |
| 20 | we could shrink that a bit thank you very much | 20 | just go to the left of it, please; that's fine, thank |
| 21 | this is where we find the obligation upon the 1112 | 21 | you. |
| 22 | contractor to do the stitch joints. Do you see that at | 22 | Mr Tam, we see you there at the top of a number of |
| 23 | 1.4, Mr Tam, in the second column: | 23 | vertical lines where a good number of people appear. We |
| 24 | "To complete the stitch joint, including Omega seal, | 24 | see different teams that you have there five |
| 25 | rebar and infill concrete, after tunnel backfilling and | 25 | different teams, is that, altogether? |
| | Page 142 | | Page 144 |
| 1 | stabilisation of tunnel settlement." | 1 | A. Yes. |
| 2 | Do you see that? | 2 | Q. So you are the head, in charge of all these people, all |
| 3 | A. Yes, I can see that. | 3 | these teams; is that right? They are all answerable to |
| 4 | Q. Then if you could go to 1.7. I'm tempted to ask | 4 | you? |
| 5 | Prof Hansford to take over the questioning at this | 5 | A Wall year oon gove that |
| 6 | point, but I won't. You will see there, Mr Tam, that | | A. Well, you can say that. |
| | _ | 6 | Q. Right. If we go up so we can see the top, please, and |
| 7 | there's a reference, underneath the "1111 contractor" | 7 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this |
| 8 | column, which says: | 7 8 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this instance, Mr Rawsthorne, who was the project manager at |
| 8 9 | column, which says: "To carry out joint inspection of the waterproofing | 7 8 9 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this instance, Mr Rawsthorne, who was the project manager at the time; is that right? |
| 8 9 10 | column, which says: "To carry out joint inspection of the waterproofing system, couplers and protection measures to couplers | 7 8 9 10 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this instance, Mr Rawsthorne, who was the project manager at the time; is that right?A. Yes. Yes. |
| 8 9 10 11 | column, which says: "To carry out joint inspection of the waterproofing system, couplers and protection measures to couplers provided at the interface work." | 7 8 9 10 11 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this instance, Mr Rawsthorne, who was the project manager at the time; is that right?A. Yes. Yes.Q. So would this be fair, Mr Tam, that you are effectively |
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| 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | column, which says: "To carry out joint inspection of the waterproofing system, couplers and protection measures to couplers provided at the interface work." And then in the "1112 contractor" column it says: "Provide access and attendance to 1111 contractor for joint inspection of the waterproofing system, couplers and protection measures" Now, first of all, Mr Tam, was it your understanding that there was to be a joint inspection of those items prior to the construction of the stitch joints? A. Well, I can see that from here. Q. Do you know whether, as a matter of fact, there was such a joint inspection between Leighton and the Gammon-Kaden Joint Venture? | 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this instance, Mr Rawsthorne, who was the project manager at the time; is that right? A. Yes. Yes. Q. So would this be fair, Mr Tam, that you are effectively the link, the important link, between all these teams and what might be described as the senior management at Leighton that we see on this chart? A. Yes. Q. Mr Tam, did you see it as your responsibility to ensure, for example, that the engineering resources that Leighton deployed to the NAT area were sufficient? A. Well, not just for NAT but for everything; right? Q. Okay. But did you regard it as your responsibility to make sure the work that you were responsible for was properly resourced? |
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| 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | column, which says: "To carry out joint inspection of the waterproofing system, couplers and protection measures to couplers provided at the interface work." And then in the "1112 contractor" column it says: "Provide access and attendance to 1111 contractor for joint inspection of the waterproofing system, couplers and protection measures" Now, first of all, Mr Tam, was it your understanding that there was to be a joint inspection of those items prior to the construction of the stitch joints? A. Well, I can see that from here. Q. Do you know whether, as a matter of fact, there was such a joint inspection between Leighton and the Gammon-Kaden Joint Venture? | 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Q. Right. If we go up so we can see the top, please, and you, as I understand it, would report to, in this instance, Mr Rawsthorne, who was the project manager at the time; is that right? A. Yes. Yes. Q. So would this be fair, Mr Tam, that you are effectively the link, the important link, between all these teams and what might be described as the senior management at Leighton that we see on this chart? A. Yes. Q. Mr Tam, did you see it as your responsibility to ensure, for example, that the engineering resources that Leighton deployed to the NAT area were sufficient? A. Well, not just for NAT but for everything; right? Q. Okay. But did you regard it as your responsibility to make sure the work that you were responsible for was properly resourced? |

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Page 145 A. Yes. Q. And if any of the personnel for whom you were responsible, who were answerable to you, indicated to

4 you that they were overstretched, overworked, presumably

5 you saw it as your responsibility to investigate that,

6 look into it and do something about it?

7 A. Of course, yes.

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8 Q. In your fourth witness statement -- that's at CC6/3784,

9 paragraph 4 -- you say that on or around 24 March 2017

10 you became aware that formal joint inspections by

11 Leighton and MTR had been completed, while some of the

12 relevant RISC forms were still outstanding, when you 13

were copied in on an email dated 24 March from Mr Kong 14 of MTR.

15 Do you see that?

16 A. Yes.

17 O. We'll look at the email in a moment, but before we do

18 that can I ask you this. Before 24 March 2017, were you

19 aware, Mr Tam, that there was a serious lack of RISC 20 forms, that a very significant number of RISC forms that

21 should have been issued in relation to the works on the

22. NAT had not been issued? Were you aware of that before

23 24 March?

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24 A. I didn't know about that. I didn't.

25 Q. So you did not think it part of your responsibilities to whether there had been any improvement and he told you that there had been some -- there had been improvements.

After that conversation with Mr Kong, Mr Tam, did you continue to monitor/keep an eye on the RISC form situation?

6 A. Well, I talked with my colleagues, I talked with 7 Mr Kong, the response I had was there was improvement, 8 and I looked at the status of the RISC forms and there 9 was indeed some improvement.

Q. Right. How long did you continue to monitor the situation?

A. I don't quite remember, because there were so many things that I attended to.

Q. I ask that, Mr Tam, for this simple reason, that we know that in July 2017, so just three or four months after

16 this email, the original stitch joints in the NSL,

that's the interface stitch joint and joint number 2,

18 the internal stitch joint, were constructed, and no RISC

19 forms were issued in relation to either of those two

stitch joints. You are now aware of that, I assume?

21 A. Of course.

A. Yes.

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22 Q. So does it follow, Mr Tam, that by July at least you

were not following up and ensuring that the RISC forms

Q. After 24 March 2017, we've established I think from you

that you checked and you detected some improvement,

an improvement in the RISC form situation?

Q. What I'm putting to you is that by July, when these

important stitch joints are being built, there were no

RISC forms in relation to those stitch joints. So were

you not monitoring the situation constantly? Did you

Q. Do you recall, following the receipt of the email that

we've just looked at, that you spoke to an individual

24 were being issued by your teams? 25

A. You mean after 2017?

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monitor whether or not RISC forms were being issued by

2 the staff that were required to issue them?

3 A. Well, obviously I do have the responsibility, but the

4 thing is I wouldn't know everything, because there were

5 many channels, many meetings going on. Now, for this

6 March 2017, that was the first time I heard about it.

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8 email a couple of times already but let's just have

10 A. Yes.

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13 right at the end of the fifth line of people to whom

14 this was sent.

15 A. I see that.

16 Q. If we could scroll down, please, there is the email

17 itself. I'm not going to read it all out; we've read it

18 a couple of times already.

Now, Mr Tam, you say that upon reading or receiving

that email, and over the next few days, you spoke to your team members or some of your team members in person

on an individual basis. You reminded them that going

forward they should submit the RISC forms immediately.

24 You say that you met Kenneth Kong, that's the sender of 25 the email, of MTR a few days later. You followed up on

Q. All right. If we could just -- we've looked at the

a look at it. C10/6208, please.

Q. If we could scroll down, please. Mr Tam, we see that

you were indeed copied in on this email. Your name is

14 A. I suppose so, yes.

15 Q. You say you suppose so. It's quite important, Mr Tam.

16 Do you have a recollection of specifically speaking to

called Henry Lai? Did you speak to him?

17 Mr Henry Lai after receiving this email?

just stop monitoring the position?

A. I didn't check anymore, no.

18 A. Well, at that time, looking at the organisational chart,

19 there were so many people under me, I didn't talk with 20 everybody, but I talked with one or two people in the

teams. He was one of them. There were a number of

22 people that I don't remember exactly whether I talked

with him about that. Probably, yes, I did.

Q. Well, when you were deciding who to speak to, presumably part of your thinking would have been: well, who amongst

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Page 151 Page 149 1 my team is actually responsible for issuing these RISC 1 hold-point, formal inspections? Did you ever think 2 forms? Can I identify them? Because surely they were 2 3 3 the key people to talk to; is that right? A. No. Quite frankly, no, because this inspection system 4 4 was not only for today. I think it has started many, A. Exactly. So I am not sure 100 per cent. You asked me 5 5 whether I was sure. I think probably I did talk to him, many years ago. It started with the time that I joined 6 but I'm not sure 100 per cent. It's such a long time 6 the profession. It was always like this. It had always 7 7 ago and I can't quite remember. been like this. 8 Q. Right. But if you had done your thinking, you would 8 Q. All right. Looking back on things now, Mr Tam, and 9 have identified him as somebody who was responsible for 9 leaving aside my point about junior and more 10 10 experienced, do you think it would be better, safer, to issuing RISC forms; yes? 11 A. I fully understand that, but over the passage of time, 11 have at least two different people doing the informal 12 it's such a long time ago, I probably did, but whether 12 and the formal inspections? 13 I am 100 per cent sure, I can't say; I can't say I'm 13 A. I would believe -- now we have two people, one 14 100 per cent sure. 14 representing the contractor, one representing the owner. 15 MR PENNICOTT: All right. 15 I think that would be quite adequate. But if we had ten 16 Sir, I see it's 3.40. I'm about to go on to 16 people doing the inspections at different times, then it 17 something else. 17 would always be a better system. That would not be 18 18 CHAIRMAN: Yes. Ten minutes? debatable. But as to whether two are adequate, I think MR PENNICOTT: Yes, sir, that's fine. 19 19 two are adequate. 20 CHAIRMAN: Thank you. 20 Q. When you say two are adequate, that's because there's 21 MR PENNICOTT: Sorry, sir. Just ... 21 somebody from a contractor and somebody from MTR; is 22 22. CHAIRMAN: Yes, thank you very much. that right? 23 Mr Tam, you are giving your evidence at the moment 23 A. Yes, yes. 24 and we're having a short break. You are not permitted, 24 Q. I'm not suggesting there should be ten people. All I'm 25 by the rules of this tribunal and of courts generally, 25 suggesting is that there should be different people from Page 152 Page 150 1 to discuss your evidence with anybody until it is Leighton, one doing the informal and one doing the 1 2 2 formal, but your answer to that is, "Well, it's always completed. Okay? 3 3 WITNESS: I know that. Thank you. been done the way it was"? 4 4 A. Mmm. CHAIRMAN: Thank you. 5 5 Q. Yes? (3.41 pm)6 (A short adjournment) 6 A. Yes. 7 7 (3.53 pm)Q. All right. Can I ask you, please, to look at paragraph 12 of your third witness statement. That's at 8 CHAIRMAN: Yes. 8 9 MR PENNICOTT: Thank you, sir. 9 the bottom of page CC1/83. You say in paragraph 12, 10 10 Mr Tam, let's press on. Mr Tam, can I ask you just Mr Tam: 11 "The construction drawings did not specify the rebar 11 a few general questions about the inspections that your 12 size for the stitch joints at the SCL1111 side of the 12 engineers carried out, particularly in relation to the 13 rebar fixing works. 13 interface. Therefore, Leighton submitted a request for 14 We've heard from in particular Henry Lai, but one or 14 information (RFI) to MTRC in May 2016." 15 two other engineers as well, that they were responsible 15 I'm going to take this a little bit slowly, Mr Tam, 16 for carrying out what have been described out informal 16 because I think this might be the first time we've 17 or routine inspections, but also responsible for 17 looked at this RFI. 18 18 carrying out the formal or hold-point inspections. So "Under item 3 of the RFI, Leighton asked for the RC 19 the same engineer would be doing both jobs or both 19 details for the stitch joints at the SCL1111 side of the 20 20 tasks. Do you understand? interface. MTR issued a reply in June 2016, showing the 21 A. Yes, I understand. 21 couplers at both sides of the stitch joints, although 22 22 Q. Did you ever think to yourself that it would be a better the size was not specified ... in the second ..." 23 system if you had one engineer, perhaps a more junior 23 Then you give a reference. Pausing there, could we 24 look at that RFI, please. It's at CC6/3333, at least it 24 engineer, doing the routine, informal inspections, and

starts there.

perhaps a more experienced senior engineer doing the

Page 155 Page 153 This is the RFI from Mr Plummer to Mr Kit Chan; do 1 RFI. We had to make preparation and we couldn't go 1 2 you see that? 2 ahead whenever it was needed. When we looked at the 3 3 A. Yes, I see that. structural drawings, there were questions, that's why we 4 4 Q. If we scroll down to the bottom, please, we see that asked them the questions. There was nothing that 5 this RFI was prepared by Billy Ng and reviewed by 5 triggered the RFI. I mean, we had to scrutinise the 6 Mr Plummer, and also reviewed by you, Mr Tam; is that 6 drawings. That's the usual practice. 7 7 right? Q. I understand. And were you -- we see you reviewed this 8 A. Yes, correct. 8 RFI, so you were personally involved in looking at some 9 Q. If we then could scroll back up again, please. Thank 9 of this detail? 10 10 A. Yes. Yes. 11 Without going into enormous detail here, Mr Tam, the 11 Q. Okay. 12 request is this: 12 When you prepared this RFI, did you review the 13 "Please clarify the followings for stitch joint". 13 minutes of the interface meetings that had taken place 14 And a number of detailed requests are made with 14 prior to this RFI? 15 15 regard to the stitch joint, and you are trying to find A. I don't quite remember the sequence of events. I would 16 out from MTR certain information, and in particular, at from time to time look at the minutes of the meetings, 16 17 number 3, you say: 17 18 18 "Please provide RC detail for the stitch joint". Q. Right. Before you prepared this RFI, Mr Tam, did you 19 And that presumably must be -- sorry, and then you 19 speak to anybody who had attended the interface meetings 20 20 prior to May 2016? also say: 21 "Please also advise the following", and then there's 21 A. I probably did. Yes, I did. 22 a question about differential movement. You ask 22 Q. Right. Now, by this time, Mr Tam, it was known and 23 a question about backfilling. Then at 7, you say: 23 recorded, at least in general terms, in the interface 24 "As no stitch joint of shunt neck shown on 24 meetings, that the 1111 contractor would be using Lenton 25 drawing ... please confirm stitch joint is not required 25 couplers at the stitch joint, and I expect you will Page 154 Page 156 remember that now? at shunt neck." 1 1 2 2 A. Yes, I do. So a series of detailed queries to the MTR about the 3 3 stitch joint; yes? Q. We do not see, do we, in amongst your queries, any 4 4 question to the MTR regarding the couplers and the rebar A. Yes. 5 5 Q. This is in May 2016. So would I be right in thinking fixings to be used by the 1111 contractor? 6 that you, Mr Tam, were turning your mind to the fact 6 A. Well, first of all, I would have to look at the sequence 7 7 that these stitch joints had to be constructed, sometime of events. I can't quite remember the chronology. 8 8 I mean, the minutes about the Lenton coupler, I can't perhaps not in the far too distant future, and therefore 9 you were looking into the whole question of the details 9 remember when it was. 10 10 Q. Okay. Let's look at CC2/739. In fact, if we could that were required and you came up with these questions 11 11 to the MTR? Is that how it was? start -- pick it up at page 756. That's meeting 12 12 A. Yes. number 8. 13 Q. And do you recall what prompted the RFI, at this time, 13 So this is meeting number 8 at 756, Mr Tam, way back 14 as opposed to a month before or a month later? Was 14 in December 2014. Do you see that? 15 there anything that triggered the sending of this RFI at 15 A. Yes, I do. 16 16 Q. We've looked at this minute already a couple of times. 17 A. Yes. I issued RFI when I had queries. 17 You will see at 8.4.2 that proposed material submissions 18 18 were made by the GKJV, and one of them was -- one of Q. But apart from the general point that I put to you, that 19 the stitch joints obviously were going to have to be 19 them related to the mechanical splicing system of rebar. 20 20 constructed at some point in the future, was there Do you see that? 21 21 A. Yes, I do. nothing -- there was nothing specific that triggered 22 22 this RFI at this time? It was just the general point Q. If you then go over the page to 763, that's an annex to 23 23 that you knew that these had to be constructed and you these meeting minutes, where there is a contractor's 24 24 needed to look into the details? materials related submission form, submitted by the GKJV 25 A. Yes. When I saw problems with the details, I issued 25 to MTR, and it makes reference to the fact that Lenton

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section, is it?

Let's see what answer you got to that. Can we

scroll down, please. There's an answer somewhere.

COMMISSIONER HANSFORD: Presumably, it's in the next

MR PENNICOTT: It might be, but without operating the thing 25

Actually, this is where you need a hard copy.

Page 157 Page 159 1 1 type A2 standard couplers for non-ductility coupler myself, I can't --2 COMMISSIONER HANSFORD: I mean the next page, the one we 2 requirement are to be used. Do you see that? 3 3 A. Yes. Yes. just looked at, 333 --4 4 MR PENNICOTT: Go to the next page, please. Back to the Q. Do you have any recollection of seeing those minutes and RFI, the next page. 5 5 that annex at the time, back in 2014/2015/2016? COMMISSIONER HANSFORD: It will be 3334, won't it? 6 A. I wasn't there in 2014. That's number one. Second, 6 7 7 MR PENNICOTT: It's possible. I know that at a very late stage there was COMMISSIONER HANSFORD: It should be 3334, or 335 maybe. 8 a confirmation about the size of the couplers. At the 8 9 beginning, it was a simple description. 9 MR PENNICOTT: We've got it here. 3341. 10 Right. This is, I think -- sorry about the delay; 10 Q. Yes. And that revision was made at meeting number 19 11 which you will find at page 847 in the same file, which 11 my fault. This is the reply that you received to that 12 we looked at with Ms Wong yesterday. 12 RFI, Mr Tam; do you see that? 13 13 A. Yes. 14 Q. It was sent by somebody called Kappa Kang. Do you 14 Q. So this was meeting number 19, held on 6 January 2016, 15 so five months before you issued the RFI, in May 2016; 15 remember her? 16 A. Yes. 16 do you see that? 17 Q. What she says is: 17 A. Yes, I can see that. 18 "For item 1, 2, 3" -- so 3 is the one that you're 18 Q. Okay. And do you remember -- we can look at the 19 19 relevant minute, which is at page 849, and we've already focusing on -- "please refer to advanced DAmS [that's 20 looked at the revision that was made to the minutes, 20 design amendments] sketches of DAmS 390 for 21 construction. Formal DAmS will be issued to you 21 with the introduction of the words "T40 coupler is BOSA; 22. 22 shortly." others are Lenton". 23 Do you recall reviewing these minutes, Mr Tam, back 23 Do you see that? So that's the answer you got for, 24 amongst others, number 3; yes? 24 in January 2016? 25 A. I'm aware of that, yes. 25 A. Yes. Page 158 Page 160 1 Q. And then presumably you looked at the DAmS, the 1 Q. You were aware of this at the time you wrote your RFI in 2 May 2016? 2 drawings? 3 3 A. (Witness nodded). A. I suppose so, yes. 4 Q. And did they satisfy you that you -- sorry, were you 4 Q. Okay. But you didn't raise any specific questions in 5 satisfied that you had been given the information that 5 relation to the couplers with MTR? 6 A. I think the difference is here, it says "T40 BOSA". The 6 you asked for? 7 A. I saw what rebars we received, but then they drew the 7 first thing is, I have to know what size they use, 8 same symbol for the other size, so I thought both were 8 before I can ask them any question. That's the purpose 9 of an RFI. I ask them about the rebars and they answer 9 the same and we could use them. 10 Q. Okay. So that was the conclusion that you drew? 10 me and then I know whether the materials can be shared. 11 Q. I'm sorry, can we go back to the RFI. 11 A. Yes. 12 Where did you ask them about the rebar, or the 12 COMMISSIONER HANSFORD: Does it show the bar diameter? 13 MR PENNICOTT: Well ... 13 couplers for that matter, in the RFI? 14 14 A. Point number 3. Could you look at the drawings, Mr -- could you tell 15 us, Mr Tam, what you looked at in order to derive that 15 Q. So, "Please provide RC detail for the stitch joint"? conclusion? 16 A. (Nodded head). 16 17 CHAIRMAN: Perhaps --17 Q. Right. So that, you say, includes a request for 18 information regarding the rebar and the couplers. All 18 A. There are more drawings to DAmS 390. (Chinese spoken).

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MR PENNICOTT: They are there not? Okay.

asking questions earlier about --

MR PENNICOTT: We were.

COMMISSIONER HANSFORD: Just while we are pondering that,

COMMISSIONER HANSFORD: -- differential movement that would

it's interesting to see what it says for item 4, because

that's referring to differential movement. We were

Page 163 Page 161 be allowed before the casting of the stitch joint, but 1 A. INCITE. 1 2 this is not an answer to that. 2 MR PENNICOTT: INCITE. 3 3 CHAIRMAN: There was the other one too. MR PENNICOTT: It is an answer, yes, or it appears to be 4 4 an answer, yes. A ePMS? 5 5 MR PENNICOTT: ePMS is the MTR one. Mr Tam, on the question of the rebar and the 6 couplers, are you telling us that there's nothing on the 6 Mr Tam, what we are trying to focus on is this. We 7 three or four drawings that are attached to this email 7 know that when it came to ordering the rebar for the 8 that help you? 8 stitch joints, Henry Lai, so far as the NAT is -- Henry 9 A. That's correct. 9 Lai ordered parallel threaded BOSA rebar; all right? 10 Q. But, as I understand it, from your recollection, you say 10 A. (Nodded head). 11 that you concluded that it was the same rebar that was 11 Q. We know that. 12 being -- that would be required, the same rebar that you 12 A. Mmm. 13 were using on the Leighton side would be appropriate to 13 Q. And the question is how that came to be. Why didn't he 14 14 be used on the Gammon side; is that right? order the tapered threaded rebar that would have been 15 15 A. Well, this was not very direct or clear on the drawings, compatible with the Lenton couplers? 16 but then that was what we understood it to be. 16 Do you understand the point? 17 17 Q. If it wasn't very clear or direct on the drawings, did A. Yes, I understand the point. 18 18 you not think to follow up and ask for clarification? Q. And what is your explanation as to why that happened? 19 A. Not at that time. 19 A. Well, it was done wrongly. It was not known that the 20 Q. Right. 20 other side ordered Lenton, or no one told him there was 21 CHAIRMAN: Did you at some later stage think it would be 21 a problem; he was not aware of it. 2.2. 22 prudent to check? Q. As I understand it, you accept that you knew that Lenton 23 A. When you said at a later stage, you mean now or at that 23 couplers were being used by the GKJV, because you and 24 time or before it was cast? 24 others had seen the interface meeting minutes. Is that 25 CHAIRMAN: Before it was done. Before it was cast, yes. 25 right? Page 162 Page 164 1 A. No, I didn't pay much attention to that at that time. A. Well, I should put it like this. I knew, if it was 1 2 MR PENNICOTT: Had you ever come across -- before you wrote 2 below 32, it should be Lenton, but above 40 it should be 3 the RFI in May 2016, had you ever come across Lenton 3 BOSA. I knew about that. I heard about the existence 4 4 couplers before? of Lenton. 5 A. You mean for this project or --5 Q. Right. And it was that fact, that the GKJV were using Q. Any project. 6 6 tapered Lenton couplers, that fact did not get 7 A. Yes, I did. 7 communicated to Henry Lai. Is that it, in a nutshell? 8 Q. All right. Were you aware that they were -- they had 8 A. Well, I don't know whether it was communicated to Henry, 9 tapered threads or may have tapered threads? 9 but then, well, this happened, and then this was the 10 10 A. Yes, I did. fact. As to whether this was communicated at that time, 11 Q. So, if that's right, and you knew about Lenton couplers, 11 I don't know. 12 you knew, from the minutes, that the GKJV were or might Q. Did you personally communicate the fact that the GKJV 12 13 be using Lenton couplers, and you knew that they might 13 were using Lenton couplers to Henry Lai? Did you 14 14 be taper-threaded; is that right? But you made no personally communicate that? 15 further enquiries about what rebar you should be 15 A. Not personally. 16 ordering? 16 Q. So either somebody else needed to tell him or he had to 17 A. Yes. 17 access certain documentation and work it out for 18 Q. And the response that you got to this RFI and the DAmS 18 himself? That's really what it comes to; is that right? 19 that accompanied it and then perhaps the formal DAmS 19 A. Well, such minutes were given to us through ePMS but not 20 that followed, was all that material detail given to 20 through individual emails. This is from hindsight. It 21 Henry Lai? 21 is not that everything had to be communicated to 22 A. Well, everybody could access this. The system will 22 everybody, because we have a system. If that system 23 circulate this. I didn't have to give it to him 23 required communication from person to person, it would 24 personally. 24 not have been a good system. CHAIRMAN: "The system" was what system? COMMISSIONER HANSFORD: I don't think Mr --

| | Page 165 | | Page 167 |
|--|---|--|---|
| 1 | CHAIRMAN: Sorry, I don't understand. | 1 | all the people. |
| 2 | MR PENNICOTT: Neither do I. | 2 | Q. But that seems to me to effectively be saying that Henry |
| 3 | WITNESS: Okay. (Chinese spoken). | 3 | Lai should have looked at the meeting minutes but, in |
| 4 | MR PENNICOTT: Try again, Mr Tam. | 4 | answer to the Chairman's question just a moment ago, |
| 5 | A. You asked whether he had to access the documentation or | 5 | you've indicated that he certainly would not have been |
| 6 | that I should communicate to him or somebody else should | 6 | told to do that, he certainly wouldn't have been |
| 7 | communicate to them, and then I said there could be | 7 | instructed to do that. |
| 8 | a third way. If the minutes were circulated to | 8 | A. Yes, you may put it this way, yes. |
| 9 | everybody, then that was one of the ways, and he would | 9 | CHAIRMAN: In earlier evidence, one of the witnesses today |
| 10 | not have had to access the documentation, because this | 10 | said that there had been a breakdown in communication. |
| 11 | was the third way. | 11 | Would you agree in respect of this particular matter |
| 12 | MR PENNICOTT: All right. | 12 | that there had been a breakdown in communication? |
| 13 | CHAIRMAN: All right. Could I ask this. Were the engineers | | A. I suppose so, yes. |
| 14 | who were tasked with doing work such as stitch joints, | 14 | MR PENNICOTT: Yes. Sir, I have no further questions. |
| 15 | which automatically had to have an interface element in | 15 | Cross-examination by MS LAU |
| 16 | them were they trained that they should appraise | 16 | MS LAU: Good afternoon, Mr Tam. I represent Wing & Kwong |
| 17 | themselves of interface meetings before committing | 17 | and I'd just like to ask you a few questions. |
| 18 | themselves to any kind of work? | 18 | I think it's now been established that you were the |
| 19 | A. Sorry, can you ask that again? | 19 | construction manager of the NAT area during its initial |
| 20 | CHAIRMAN: What we know is we have the stitch joints. | 20 | construction stage; is that right? |
| 21 | Stitch joint work comprises, necessarily, interface | 21 | A. Not just NAT. |
| 22 | issues, and there were interface meetings. Your | 22 | Q. But including NAT, you would agree? |
| 23 | engineers, the young Leighton engineers, in this case | 23 | A. Yes. |
| 24 | Henry Lai, people like him, were they trained or were | 24 | Q. And during that period of time, Henry Lai was one of the |
| 25 | they instructed that when they took on stitch joint work | 25 | engineers under your charge; correct? |
| | | | |
| | Page 166 | | Page 168 |
| 1 | Page 166 or work that would have an interface element, that they | 1 | Page 168 A. Yes. |
| 1 2 | or work that would have an interface element, that they | 1 2 | A. Yes. |
| 2 | or work that would have an interface element, that they would have to go back over the minutes of interface | 2 | A. Yes. Q. But after July 2017 you were transferred to another |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | or work that would have an interface element, that they would have to go back over the minutes of interface meetings to draw from those minutes all relevant information concerning the construction of the stitch joints? A. That's right, yes. CHAIRMAN: They were told that? A. They need to do that. CHAIRMAN: No, no. A different question. Not they need to do it. Were they, unambiguously and clearly, as fairly junior, young engineers, instructed that whenever they had this type of work which had an interface element, that they should go back over the relevant minutes in order to try to draw from the minutes whatever they needed to do their work? A. I don't think so, no. MR PENNICOTT: So let's retrace our steps slightly, Mr Tam. How do you say Henry Lai ought to have been informed that the GKJV were using Lenton couplers? A. Well, looking at the minutes, the MTRC notified everybody. I mean MTRC made available the information to us. When I look at the correspondence, there are one or two people had the information; I think that's why | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | A. Yes. Q. But after July 2017 you were transferred to another project; is that right? A. Correct. Q. We've heard evidence from Mr Jonathan Kitching who told us that when he learnt of the defects at the NAT stitch joints and the shunt neck joint area, he reached out to speak to you. Do you recall having this conversation with him? A. I remember that, yes. Q. Was that the first occasion on which you learned of the fact that there were defects in the works of the stitch joints and the shunt neck joint? A. You mean when Jon asked me about that, that was the first time? Q. Yes. A. Yes. Q. Do you recall approximately when this conversation took place? A. I don't remember. Q. In terms of months? Year? A. I don't remember. Q. If I suggest to you that the conversation took place in |

Page 171 Page 169 Q. So do you remember what he asked you during this 1 Lai was the person directly responsible for the initial 1 2 conversation? 2 construction of those joints? 3 3 A. Yes. A. I don't remember. 4 4 Q. Well, did you then, in that conversation with Q. No? Nothing at all? 5 5 A. I don't remember. Mr Kitching, refer him to Henry Lai, the person being 6 Q. Did he for example ask you why the rebar was not 6 directly responsible for that part of the construction? 7 7 properly connected to the couplers at the stitch joints A. I think he did approach Henry Lai. 8 and the shunt neck joint? 8 Q. I see. Have you, after that conversation, thereafter 9 A. I don't remember specifically what he asked me. Maybe 9 had any other conversations with Mr Kitching on this 10 10 a question like this was put to me. But I don't issue, on the defects in the construction joints --11 remember exactly; it was such a long time ago. 11 shunt neck joint and the stitch joints? 12 Q. So if that was the first occasion you learned of the 12 A. I don't think so. 13 improper or inadequate connection at the stitch joint or 13 Q. So that was the only conversation you've had with 14 shunt neck joint area, presumably you would have been 14 Mr Kitching? 15 shocked? 15 A. I suppose so. 16 Q. Now can I please ask you to look at page EE271. This is 16 A. Yes, I was. Q. So suppose that Jonathan Kitching did ask you why the 17 17 a letter sent by ... 18 rebars were not properly connected -- do you recall what 18 A. Yes. 19 did you say in reply? 19 Q. This is a letter sent by Leighton to Wing & Kwong, the 20 A. I don't remember how I replied, no. 20 rebar fixing sub-contractor, dated 12 February 2018. If 21 Q. Can I ask you to please turn to CC page 86. That's your 21 you read the body of the letter, it says Leighton has noticed that there are "significant water leaks and 22 22 third witness statement. Paragraph 25. 23 Sorry, not that witness statement. The first 23 structural cracking at the reinforced concrete stitch 24 witness statement of Jonathan Kitching. Page CC6488, at 24 joints at the NAT NSL and EWL Tunnel and trough 25 paragraph 10. 25 structure respectively". Page 170 Page 172 1 They said that investigations are underway and they You would see at paragraph 10 that it says: 1 2 2 "Around the same time, I spoke to Mr Joe Tam, who told Wing & Kwong that should the cause as ascertained 3 3 was the construction manager for the NAT at the time be due to Wing & Kwong's defective work, then they would 4 4 that the NAT stitch joints and the shunt neck joint were seek to recover all costs incurred in accordance with 5 5 constructed. Joe was Henry's supervisor at that time. the terms of the sub-contract. 6 I asked Joe the same type of questions that I asked 6 Do you see that? 7 7 Henry. I cannot recall the exact words of the A. Yes, I am reading it now. 8 8 Q. Have you previously seen this letter? conversation but the gist of Joe's response was that he 9 was not personally involved in supervising the works at 9 A. I don't think so. 10 10 Q. Now can we move on to page EE291. Sorry, 290 first. the NAT stitch joints and the shunt neck joint and he 11 This is a letter dated 26 February 2018, sent by Wing 11 did not know anything about the issues." 12 12 Having looked at Kitching's statement, would you & Kwong to Leighton. 13 agree that this is -- this was what you responded at the 13 If you cast your eye to the bottom of the page, 14 14 three lines from the bottom, it says: time? 15 15 A. I think there were some problems with supervising. "To make sure the connection is either coupler with I was there at the time. I was involved. The short 16 parallel threads or with taper-cut threads so as to 16 17 17 prepare the relevant materials to carry out the work at answer is I don't agree. 18 18 all time, our Chun has inquired your Henry in February Q. So you were saying you were personally involved in 19 supervising the works? 19 2017. We received a reply from Henry that he did not 20 20 know the details of contract no. 1111." A. Let me have a look. Bear with me. Let me have a look 21 21 If we then skip to the next paragraph, it says: at the paragraph. 22 22 I don't quite remember. "The captioned work was launched in July 2017. 23 23 Q. So assuming you were also personally involved in the After the concrete surface had been hacked off ... the 24 24 supervision of the NAT stitch joints and shunt neck connection was found to be coupler with taper-cut 25 joint area, you would agree, would you not, that Henry 25 threads. Our Chun stated right away that the rebar we

Page 173 Page 175 1 prepared according to Leighton's information which could 1 Q. But your conversation --2 2 COMMISSIONER HANSFORD: We need to leave gaps, otherwise not tighten into the coupler completely. However, 3 3 it's not going to be captured on the transcript. according to the verbal instruction given by Leighton, 4 4 there was not enough time to rethread the rebar and your MS LAU: Sorry, yes, I'm aware of that. 5 company urged our side to try our best to tighten the 5 Right. So your conversation with Mr Kitching, 6 rebar which are parallel threads into those couplers." 6 that's the first occasion on which you learned of the 7 defects at the stitch joints and the shunt neck joint In that letter, the instruction that was said to be 8 given was said to be given by Henry Lai. Have you -area, is that not? 9 CHAIRMAN: Sorry, bear with me just a second. I'm not sure 9 A. The first time? Well, yes. I'm not sure whether it 10 if that needs to be translated, does it? 10 was -- whether he was the only one, but then at that 11 Has it been translated? It has. Sorry. 11 time that was the time I found out. 12 MS LAU: Presumably you haven't seen this letter previously 12 Q. So around that period of time, when you had that 13 conversation with Mr Kitching, you've also spoken to 13 either? 14 Henry Lai? 14 A. Yes. 15 15 A. Yes. Q. You haven't seen it? A. (In English) Haven't seen it. 16 Q. What did you say to him? 16 17 A. Sorry, I'd like to clarify something first, because 17 Q. Moving on -- sorry, let me just check. 18 there were many such conversations at that time and 18 So Jonathan Kitching did not show you this letter 19 19 during the conversation? I can't recall who I said what to, and then of course 20 A. I don't think so. 20 I discussed with Henry something, but I'm not sure 21 whether I talked to him why there were defects. Maybe 21 Q. But you would agree that if this was an allegation made 22. 22 not about defects. against Henry Lai, it was a very serious allegation? 23 A. Yes, from the letter, yes. 23 Q. So you've now clarified that you have spoken to Henry 24 Lai around that time; is that right? 24 Q. An allegation that goes directly to his professional 25 integrity as an engineer; would you agree? 25 A. Yes, I had conversations with Henry Lai, but whether Page 174 Page 176 A. Yes, according to the letter, yes. I talked to him about the defects, I don't recall 1 1 2 Q. So presumably you would have expected Jonathan Kitching 2 whether I talked about that with him and asked him why. 3 3 or anyone within Leighton's senior management to We of course have talked, but then as to the exact 4 4 details I don't remember whether I asked him about properly investigate into the matter, would you not? 5 5 A. Yes. 6 Q. Okay. Moving on to the next topic. I'd like to ask 6 Q. I understand that given the elapse of time, you could 7 you, during the initial construction of the stitch 7 not recall what exactly you have asked him, but broadly 8 joints and the shunt neck joint, has Henry Lai ever 8 what were those conversations about? Were they about 9 raised with you the issue that he's seen some Lenton, 9 the stitch joints, for example? 10 10 which is tapered threaded couplers, as opposed to BOSA A. Sorry, I really can't say. 11 couplers on site? Has he ever told you that? 11 Q. I ask you this because Henry Lai told us during his A. No, he didn't. 12 evidence that he's never spoken to you during that 12 13 Q. So, having had that conversation with Mr Kitching, which 13 period of time, since Jonathan Kitching has spoken to 14 him about that issue. But is there anything else that 14 we have just gone through, in February 2018, have you 15 you want to tell us about what Henry Lai has said to you 15 then tried to clarify the situation with Henry Lai? 16 A. I don't recall. What do you mean by clarifying with 16 after the event? 17 Henry Lai? 17 A. No, nothing. 18 Q. Have you gone back to Henry Lai and asked him why did 18 MS LAU: I understand. Thank you very much, Mr Tam. That's 19 the defects in the stitch joints or the shunt neck joint 19 all I wish to ask. 20 occur? 20 MR BOULDING: Sir, I have a few questions for Mr Tam. Do 21 A. Well, I think I should have mentioned it, but I don't 21 you want me to start now? 22 the exact details and how I put the question to him. 22 CHAIRMAN: Yes, I think so. Thank you very much, 23 23 Q. So that was after your conversation with Mr Kitching? Mr Boulding. 24 A. I don't know when but -- well, it should not have been 24 MR BOULDING: No problem. 25 immediately after the conversation. 25 Cross-examination by MR BOULDING

25

Page 179 Page 177 1 Q. Good afternoon, Mr Tam. I'd like to ask you one or two 1 Kevin Harman to look into the matter." 2 questions, if I may, about RISC forms, and in particular 2 Is that something you're aware of? 3 3 RISC form submissions. Do you remember discussing that A. No. 4 with Mr Pennicott earlier today? 4 Q. And he says: 5 A. (Nodded head). 5 "The foregoing is documented in a series of 6 Q. Unless you speak up, Mr Tam, we're not going to get --6 documents prepared by Leighton titled 'MTR outstanding 7 7 A. Yes, yes, I understand that. Sorry. submission responses 5-week rolling view' and in 8 Q. I wonder if we can look at your fourth witness 8 particular the section titled 'Kit Chan special request 9 statement. That's at CC3784. If we could look at 9 process control register'." 10 10 paragraph 4. Here you say: Now, is that a document you've ever seen before, 11 "I became aware on or around 24 March 2017 that 11 Mr Tam? 12 formal joint inspections by Leighton and MTRCL had been 12 A. I wasn't aware of it. 13 completed, while some of the relevant RISC forms were 13 Q. Let's just see how far we can go, please. If we look at 14 14 still outstanding, when I was copied in an email dated BB5712 -- and that document needs to be blown up -- do 15 24 March 2017 from Kenneth Kong (senior inspector of 15 you see the title, "MTR Kit Chan special request process 16 works) of MTRCL to Leighton ..." 16 control register"; do you see that? 17 Do you remember being asked about that particular 17 A. (Nodded head). 18 paragraph, once again, by Mr Pennicott? 18 Q. And we can see, can we not, if we look at the top 19 A. Yes, I remember. 19 left-hand corner, that it's got a cut-off date of 13 May 20 Q. The transcript records that you told him that this was 20 2015; right? 21 the first time you were told about the problem with RISC 21 A. Yes. 22. 22 forms. Do you remember giving that answer? Q. And, very approximately, that's something, what, two 23 A. Yes. 23 years before you say you were first aware of a problem 24 Q. Do you know Mr Kit Chan of MTR? 24 in 2017; correct? 25 A. I know him. 25 A. Yes. Page 178 Page 180 1 Q. He's coming along to give evidence next week, I think. 1 Q. Then if we were to look down at the foot of the page, we 2 I wonder if we can just see what he's going to tell the 2 see a note. Do you see that the objective of this 3 3 learned Commissioners. Leighton document, objective of this register, is "to 4 4 If we could go, please, to BB5197. Splendid. In make sure we delivery quick and effective service to our 5 5 paragraph 36, Mr Kit Chan tells us -- do you have that customer Mr Kit Chan"; do you see that? 6 in front of you now, Mr Tam? 6 A. Yes, I see that. 7 7 A. Yes, I have it. Q. And I assume that you would agree with me that that is 8 Q. If you need it translating, it will be. Mr Kit Chan 8 indeed an admirable objective on the part of Leightons? 9 9 10 10 "Leighton's performance in RISC form submissions was Q. Then if you can go to the next page of the document, 11 persistently poor, as its RISC form submissions were 11 please. We've got another little note there: 12 12 either late or not being made at all. Indeed, I have "If problems are ever encountered in carrying out 13 refreshed my memory with the aid of various documents 13 Kit Chan requested action, immediately notify 14 (as set out below) and I recall that this aspect of 14 Mr Kit Chan either in person or by phone ..." 15 Leighton's poor performance was a subject matter of 15 Then we've got the telephone number. Do you see 16 constant reminders to Leighton and I had specifically 16 that? 17 raised the issue to Leighton's Kevin Harman." 17 A. Yes. 18 Did Mr Kevin Harman ever raise this matter with you, 18 Q. So it's clear, is it not, that there was, to say the 19 Mr Tam, at this time? 19 least, a degree of urgency associated with the actions 20 A. You mean before March 2017? 20 set out in this document; correct? Is that the way you 21 Q. Yes. 21 understand it? 22 A. Yes. Yes. 22 A. (In English) No. 23 23 Q. Then in paragraph 37 we can see: Q. Then if we can look, please, at BB5710, and we've got 24 24 "Leighton was aware of MTRCL's dissatisfaction with the cut-off date of 13 May, and if you'd be kind enough

to go across the top of the list, the top of the

25

its RISC form submissions and assigned a group led by

Page 181 Page 183 1 document, do we see that the first column is headed, 1 Q. Just to pick up where we are in terms of the date -- the 2 "Count"; do you see that? The top left-hand corner, 2 controller has just obliterated that for me -- if you 3 "Count"? 3 look at the top left-hand corner, you see that we've 4 A. Yes. 4 moved a bit and the cut-off date for this is 20 August 5 Q. Then if you come down to number 4. 5 2015; do you see that? 6 "Active tasks (still in process and recorded in the 6 A. Yes. 7 5 week rolling summary)", that's helpfully highlighted 7 Q. If we go across the top again -- we are getting quite 8 in yellow; do you see that? 8 familiar with this now -- do you see the heading, 9 Do you see that, Mr Tam? 9 "Actions taken"? Do you see that column? 10 A. Yes. 10 A. Yes. 11 Q. Then come down to the number 4, if you would be so kind, 11 Q. And next to that, "LCAL action champions"? 12 and we've got first of all a KCR number and then 12 "Received date and time"; "Mode", email and phone; and 13 13 Q. Then if we go down, against item 2, count 2, which we 14 then you can see, under the column headed "Request 14 looked at before: description": 15 15 "LCAL are not submitting RISC records inspection 16 "Leightons are making (1) late RISC submissions and 16 requests." 17 (2) omitting RISC records submissions." 17 And once again you are identified, are you not, as 18 Do you see that there? 18 one of Leighton's champions? 19 A. Yes. 19 A. Yes. 20 Q. Then if you look at the entry immediately below that, 20 Q. In those circumstances, what I have to suggest to you, 21 you can see that active number 5 is "Leightons are not 21 Mr Tam, contrary to your witness statement, is that the 22. submitting RISC records inspection requests." 22 problems recorded in these forms, LCAL not submitting 23 Do you see that? 23 RISC forms and the like, was indeed drawn to your 24 24 attention well, well before the email of 24 March 2017, 25 Q. Perhaps we can go to the right of the document, so if 25 which my learned friend Mr Pennicott took you to. Page 182 Page 184 1 the controller can shift it to the left -- thank you That's correct, isn't it? 1 2 very much -- and we've got our headings helpfully set A. I didn't notice these documents. Yes, seeing these 2 3 3 out across the top, and do you see the heading, "Actions documents, I know that they were sent to me. But in 4 4 taken"? Do you see "Actions taken"? answer to Mr Pennicott, I didn't notice these documents. 5 5 A. Yes. I didn't notice them. 6 Q. Then next to that, do you see, "LCAL action champions"? 6 Q. So you didn't notice these documents, but presumably, 7 7 A. Yes. now I've reminded you of their contents, you would 8 Q. Then if we look down, against number 4, do we see, 8 accept, would you not, that as one of Leighton's 9 Mr Joe Tam, that you are indeed identified as 9 champions, the matters associated with the RISC forms, 10 10 a champion? Is that correct? or perhaps more accurately the lack of them, were drawn 11 to your attention for action back in 2015, were they 11 12 12 Q. You are not just a champion once, are you? Because if not? 13 you look in the next column, we see Mr Joe Tam 13 A. I suppose so. 14 14 identified as a champion again, do we not? MR BOULDING: Thank you, Mr Tam. 15 15 A. Yes. CHAIRMAN: Are you going to ask further questions, I'm not 16 Q. Just to show you that I'm not being selective with the 16 suggesting now but tomorrow morning? 17 documentation, perhaps we could move on to BB5738. If 17 MR BOULDING: I think my learned junior doesn't think I've 18 I can take this perhaps slightly more quickly because we 18 earned my brief. 19 are all getting the hang of it, you will see, under 19 CHAIRMAN: Thank you. 20 count number 2 -- do you see count number 2? Count 20 MR BOULDING: Perhaps I can just reserve my position. 21 number 2, "Request description": 21 CHAIRMAN: Yes, certainly. 22 22 "LCAL are not submitting RISC records inspection Mr Khaw, are you likely to be --23 23 requests." MR CHOW: Sir, we do have a few questions for Mr Tam, I'm 24 Do you see that? Do you see that? 24 afraid. 25 A. Yes. CHAIRMAN: Thank you very much.

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|---|---|--|
| 1 | Mr Tam, we are adjourning for the evening now, so | |
| 2 | regrettably we have to ask you to come back tomorrow | |
| 3 | morning at Mr Pennicott, 10.00? It's not that I'm | |
| 4 | unaware of the times. It's just that you have a better | |
| 5 | idea of whether we are being pressed for time or whether | |
| 6 | things are still okay. | |
| 7 | MR PENNICOTT: We are okay, sir. | |
| 8 | CHAIRMAN: Fine. 10 am tomorrow morning. And again, because you are still in the process of | |
| 10 | giving your evidence, you are not permitted to discuss | |
| 11 | it with anybody else; okay? | |
| 12 | Thank you very much. 10 am tomorrow morning. Thank | |
| 13 | you. | |
| 14 | (5.06 pm) | |
| 15 | (The hearing adjourned until 10.00 am the following day) | |
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