Page 1 Page 3 1 1 Wednesday, 28 November 2018 a number of TCPs under the representative; is that 2 2 (10.02 am) right? 3 MR RAYMOND DAVID BREWSTER (on former oath) 3 A. Correct. 4 Cross-examination by MR CHOW 4 Q. If I may go on: 5 5 MR CHOW: Good morning, Mr Chairman. Good morning, "Responsibilities and duties of the heads, 6 Professor. 6 representatives and TCPs regarding the preparation and 7 Good morning, Mr Brewster. 7 execution of supervision plans are set out in tables 4.1 8 8 A. Good morning. to 4.4." 9 Q. My name is Anthony Chow, I represent the government and 9 Now, the relevant part for the registered contractor 10 I have a few questions for you this morning. 10 is set out in table 4.4 at page 2680. If I can take you 11 11 to table 4.4, please. Q. Before I start, Mr Brewster, I have been listening to 12 12 Now, table 4.4, the first part sets out the 13 your exchange with counsel for the Commission yesterday 13 responsibilities and duties imposed authorised signatory 14 afternoon, and honestly I have to confess that I have 14 by the Code of Practice. 15 great difficulty in catching what you said. I'm sure it 15 For responsibilities, it includes: 16 is due to my own deficiency, but for my benefit, would 16 "-- Assuming overall responsibilities in the 17 you be kind enough to, when you give your answer, speak 17 appointment of his representative and TCPs. 18 slowly. That will help me a lot. 18 -- Ensuring the full implementation of the 19 A. Okay. 19 supervision plan regarding his own stream. Q. Thank you. 20 20 -- Ensuring that non-conformities are immediately 21 Mr Brewster, my first question is: are you still the 21 acted on and that rectification is carried out 22 authorised signatory for project 1112, even up to now? 22 forthwith." 23 23 A. Yes, I am. And insofar as duties are concerned: 24 Q. In paragraph 8 of your first statement, this is where 24 "-- Compiling his own part of the supervision plan. 25 you deal with the duty and responsibility of the 25 -- Devising checklists of specific tasks for his Page 4 Page 2 1 authorised signatory of the project. 1 TCPs. 2 2 A. Yes. -- Supervising his representative and TCPs. 3 Q. Are you familiar with the Code of Practice for Site 3 -- Preparing plans, method statement and/or 4 Supervision 2009? 4 precautionary and protective measures for temporary 5 5 works categorised as case 2 and/or case 3 under A. I am. Q. Can I trouble you to go to the Code of Practice at 6 paragraph 4.7 of this Code. 6 7 7 bundle H8, page 2665. The first provision I would like -- Notifying the AP of any non-conformities which 8 to take you to is section 4.2 at page 2671. Section 4.2 8 pose an imminent danger, or cause a material concern for 9 9 provides that: 10 10 "The head of the management structure shall have -- Carrying out site [supervision] as necessary." 11 overall responsibility and accountability for their 11 So, during the time of the execution of, in 12 respective functional stream. The representative is 12 particular, the EWL slab and NSL slab, you were fully 13 directly accountable to the head" -- in the case of the 13 aware of the responsibilities and duties imposed upon 14 14 you, as we have just gone through, were you not? contractor, it would be the authorised signatory --15 15 "whereas all other safety management personnel are A. Correct. Q. Regarding one of the duties, for "Compiling his own part 16 accountable to the head through the representative." 16 17 17 of the supervision plan", do you accept that the Yesterday, from my recollection, Prof Hansford 18 raised a question regarding personal representative, so 18 supervision plan here includes both the site supervision 19 am I right to understand that under the structure, other 19 plan and the quality supervision plan? 20 20 than you yourself as the authorised signatory, you have A. Sorry, could you repeat that? 21 another person under you which is your representative 21 Q. One of the duties set out in table 4.4 concerns 22 22 compilation of the contractor's part of the supervision on site? 23 23 plan, and my question was, by "supervision plan" A. Yes. I have several AS representatives on site, at 24 different times. 24 indicated in the table, it would include both the Q. I see. So, further down the hierarchy, then we have 25 quality supervision plan and site supervision plan; do

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Leighton's logo on almost every page of the quality

supervision plan, am I right to say that at the very

Page 5 Page 7 1 you agree with me? least Leighton has endorsed the content of this quality 2 supervision plan? 2 A. The SSPs cover safety management which entails both A. Well, we did propose it to MTR, yes. This letter you 3 safety control and supervision and quality supervision, 4 have taken us to is an MTR letter. But we would have 4 5 5 Q. So your answer is "yes", you agree with me? initially prepared this with Intrafor, BOSA and 6 ourselves, with MTR's input, and it's gone to MTR; 6 A. Yes. 7 Q. Thank you. So, at the time of the execution of the 7 they've forwarded it to BD. 8 8 COMMISSIONER HANSFORD: Sorry, can I just interject here -work, while you served as an authorised signatory, did 9 9 MR CHOW: Sure. you prepare the quality supervision plan? 10 COMMISSIONER HANSFORD: -- and ask Mr Brewster -- on this 10 A. No, I didn't, because the quality supervision plan was 11 cover, it says "Type II -- Seisplice standard ductility 11 prepared by Intrafor in the first place. 12 12 Q. Right. coupler". 13 A. Yes. 13 A. And that's under a separate AS. 14 COMMISSIONER HANSFORD: You answered to my question 14 Q. Are you telling us that the quality supervision plan yesterday about when ductility couplers were required 15 15 that we have been looking at over the past few weeks is 16 the quality supervision plan prepared by Intrafor? 16 was that they were required in places other than the 17 17 construction joints. A. It was initially prepared by Intrafor. We would have 18 had a part in it, as well as MTR. 18 A. Yes. 19 COMMISSIONER HANSFORD: I think we then went on a little bit 19 Q. Yesterday, you were taken to the quality supervision 20 20 further and explored that what you were talking about plan. Do you recall that part of the exchange? 21 A. I recall discussing it. Which particular part are you 21 there was the diaphragm walls and the connections that 22 22 came out of the diaphragm walls. referring to? 23 A. Yes. 23 Q. Take it from me that that quality supervision plan has 24 COMMISSIONER HANSFORD: So this type II standard ductility 24 Leighton's logo printed on the quality supervision plan, 25 coupler specification relates to the diaphragm walls? 25 and from my recollection we can't see any indication Page 6 Page 8 that it was prepared by Intrafor. 1 A. As to those couplers, yes. 2 A. I'd have to look at it, but it's fairly obvious it was COMMISSIONER HANSFORD: Thank you. 3 3 MR CHOW: Can I just follow up on Prof Hansford's question. in part prepared by Intrafor because of the appendices 4 that clearly relate to Intrafor's action in respect of 4 So the couplers which require ductile behaviour, 5 BOSA's involvement. 5 basically are those couplers at the interface between 6 Q. Am I right that at the very least, given the fact that 6 the slab and the diaphragm wall; is that correct? 7 the quality supervision plan bears Leighton's logo --7 A. That's my understanding, yes. 8 MR WILKEN: Sir, can he be taken to the document? I think Q. Thank you. Now, you, being the authorised signatory of 9 9 Leighton and in charge of -- to a certain extent, this is getting to a memory test again. 10 MR CHOW: That's what I plan to do. Thank you for reminding 10 concerned with the project contract 1112 -- at the time 11 me, Mr Wilken. 11 of the execution of the work, have you ever looked at 12 12 Can I trouble you to go to bundle H9, page 4263, the details of the quality supervision plan? 13 13 please. That is the covering letter, and the first page A. As I said yesterday, I can't recall seeing it. 14 of the quality supervision plan can be found at 14 Recently, I've been across it a lot. 15 page 4265. 15 Q. I recall that part of the evidence is you didn't even 16 Can you confirm that -- well, first of all, the logo 16 know couplers were used in the project? appearing on the top left-hand corner is Leighton's 17 17 A. I don't recall saying that. 18 logo; can you confirm that? 18 CHAIRMAN: Sorry, I don't recall that. 19 A. It certainly looks like it, yes. 19 COMMISSIONER HANSFORD: In fact it was the contrary. 20 CHAIRMAN: "RC" means ...? 20 Mr Brewster told us that they are regularly used in 21 MR CHOW: "RC" means registered contractor. 21 projects and indeed in this contract. 22 CHAIRMAN: Thank you. 22 MR CHEUK: Sorry, Commissioner and Chairman, I do have such 23 MR CHOW: So this document, given the fact that it bears 23 recollection. When I first asked him, "Were you aware

couplers were used in this project?", he said he didn't

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2.5

recall.

Page 9 Page 11 1 CHAIRMAN: I see. We are talking about a question that went 1 equivalent to a grade T3 TCP to be in charge of the 2 to a specific fact, "Do you recall this?" Later, he 2 supervision work; is that correct? 3 spoke about the fact that couplers were not exceptional 3 A. As I said yesterday -- firstly, I go back to the fact 4 items in any form of contract. 4 that I have AS reps who I rely on to deal with these 5 5 MR CHEUK: Yes. matters that arise on the contracts. If I wasn't sent 6 MR CHOW: For the purposes of the record, I have actually 6 it -- I don't recall being sent those documents, then 7 looked at the transcript this morning, and that part of 7 it's up to them to deal with it. If there was 8 the evidence can be found at page 99, line 12 to 8 a problem, they would let me know. 9 page 101. I don't propose to go to the detail of the 9 Q. So your answer to my question is "yes"; is that right? 10 transcript, so if I may then continue. 10 A. Sorry, you'll have to ask that question again. 11 Now, on the basis of your evidence yesterday, that 11 Q. Leighton at the time has not appointed a specific 12 12 at the time of the construction of the slab, you didn't quality control supervisor to take care of the full-time 13 know the use of couplers in this project, and you have 13 and continuous supervision of the splice assembly work? 14 no recollection of having read the quality supervision 14 A. Well, if you're asking me, I didn't. Whether the AS 15 plan -- is that your evidence? 15 reps did was something you'd have to ask them. But, as A. Yes. I don't recall reading it at the time, that's what 16 16 I also said yesterday, I wouldn't expect necessarily 17 I said. 17 those field people, the site engineers, to actually be 18 O. So, at that point, a logical deduction would be you were 18 aware of the QSP, if we were working with our own 19 19 not aware of the specific requirements in relation to quality management plan, and that plan, as I said 20 the inspection of the installation of the couplers work 20 yesterday, also provides facilities for checking 21 set out in the quality supervision plan. Can you 21 reinforcement through RISC forms and also the pre-pour 22 confirm that? 22 23 23 A. That would be correct, on the basis that I don't recall Q. Can I ask you to look at a letter from Leighton to the 24 seeing it. 24 Buildings Department dated 9 October 2018, this year, at 25 Q. You were also not aware of the requirement of having to 25 bundle H20, page 39722, please. Page 10 Page 12 appoint a specific person called a quality control 1 1 This is a letter in which Leighton responds to some 2 supervisor, or in some documents said quality control 2 queries from the Buildings Department. 3 3 Let's go to page 2 of the letter, the following coordinator, responsible for the inspection of the 4 splice assembly work on a full-time and continuous 4 page. Under "Item (c)", subparagraph 2, Leighton said: 5 basis? You were not aware of that requirement too; is 5 "The quality control coordinators for the mechanical 6 that right? 6 coupler works related to the HUH diaphragm wall and EWL 7 7 A. If I didn't see the document, I wouldn't be aware of it, platform slab were: 8 8 (a) Tang Kwok Wah [and then a number of persons from 9 9 Q. Right. Now, we have heard evidence from various Intrafor]; and 10 Leighton staff from the site supervision team and site 10 (b) LCAL engineering and supervision staff 11 engineering team, including Mr Gabriel So, Khyle 11 responsible for the platform slab reinforcement works." 12 12 Rodgers, Chan Chi Ip -- three of them were from Then you said: 13 13 "The CVs for those personnel are included in Leighton's site supervision team -- and we also heard 14 evidence from Andy Ip, Edward Mok and Man Sze Ho. 14 appendix C." 15 Save Mr Edward Mok, who has heard about the QSP but 15 Can we move down a bit in the letter? This is 16 he confirmed that he never read it at the time, none of 16 a letter issued by you in response to specific queries 17 17 raised by the Buildings Department. In the paragraph them said they were aware of the specific requirement that I have just taken you to, it is quite clear that 18 18 set out in the quality supervision plan regarding 19 full-time and continuous supervision for the 19 the message that you tried to give --20 installation of the couplers work. So that's the 20 CHAIRMAN: Can we just go up so we can see that paragraph 21 21 evidence that we have received so far. again. 22 Now, you yourself, as the head of the structure, 22 MR CHOW: Yes. The message that you tried to give to the 23 23 also have no knowledge of that specific requirement. So Buildings Department is that a quality control 24 am I right to say that, at that time, you had not 24 coordinator for the mechanical couplers work had been 25 appointed a specific person with the qualification 25 appointed by Leighton, and he was responsible for the

Page 13 Page 15 1 1 required supervision work on site at the time of the they're added in. It becomes a project management plan. 2 2 CHAIRMAN: All right. You see, because it strikes me that execution of the slab. Is that your intention at the 3 perhaps contractually what may be said is, in drawing up 3 time? 4 the relevant contracts, that the QSP will be Leighton's 4 A. Sorry, but the letter doesn't say "appointed". It just 5 5 says they were. The first one relates to Intrafor so standard terms and conditions in this regard, and that's to do with Intrafor and their AS. The second 6 procedures. That would be the quickest way of dealing 6 7 part of --7 with it, as opposed to appearing to come up with 8 8 a collateral plan which in fact isn't a collateral plan Q. How about paragraph 2(b)? 9 9 because it merely indicates that Leightons are just A. The second part, part (b), we are saying, as I said 10 going to use their own standing procedures? 10 earlier, that the requirement was met through compliance 11 with the quality management plan and the RISC forms and 11 That's a little complicated or on my part not the 12 12 best way expressed, but do you see what I mean? the pre-pour checks by the responsible staff. 13 A. I think I do, but there's one thing we try to avoid 13 Q. Mr Brewster, just now you agreed with me that at 14 on site is confusion. We don't want a multitude of 14 15 15 CHAIRMAN: Sorry, I do apologise, I've cut you off. different plans covering particular things. So our 16 I appreciate entirely what you're saying, Mr Brewster, 16 quality management plan is all-embracing, and people are 17 17 used to following it, and it's very similar to the MTR's and this is just a query, but in theory, would you 18 accept that while Leightons, with international 18 plan and we dovetail with them. 19 19 CHAIRMAN: Yes. experience and very great experience of large and 20 high-quality engineering projects, would obviously have 20 COMMISSIONER HANSFORD: If I can follow on -- so when you 21 and place trust in its own quality control plans and 21 get a new contract or a tender for a contract, is one of 22 systems; in theory at least, in respect of each large 22 the things you do to check whether your quality 23 23 management plan includes all the requirements, quality contract that may take place, there may be a requirement 24 24 requirements, of the contract? to build specialist plans, either that add to your 25 25 A. Yes. We've got an overall company project management standard quality control plans or are integrated into Page 14 Page 16 1 plan which has various plans within it, quality them in some way, in theory? 1 2 2 A. In theory, if that situation arises, yes, it will be management environment, all those are covered. But, 3 yes, there is a project-specific management plan that's 3 dealt with by a particular insert into the quality 4 management plan for the project. 4 prepared, and then there's the subsets of all the other 5 CHAIRMAN: Yes. 5 plans, like planning, interface with sub-contractors; 6 all of those things form part of the project management 6 A. In this case, that suggest couplers are not 7 7 plan that's specifically written around the generic an extraordinary item and they are dealt with through 8 8 our pre-pour concrete checks, that there's a specific COMMISSIONER HANSFORD: Yes, because as the Chairman was 9 9 item; it gets particular attention. 10 CHAIRMAN: All right. So in respect of couplers, you are 10 asking you just now, it's quite conceivable that 11 specific requirements for a specific project may go 11 saying effectively that anything that the QSP to which 12 beyond the generics of your quality management plan, and 12 you have been referred, anything that was concerned 13 13 you've said in such an instance you would amend or put there with couplers would have been already part and 14 parcel of your standard quality control mechanisms and 14 inserts, but you want to keep it relatively clear. 15 15 A. You'd add to the standard quality management plan and procedures? 16 make that the quality management plan for the project. 16 A. Yes, that's what I'm saying. 17 COMMISSIONER HANSFORD: Right. And was that done here? 17 CHAIRMAN: And would that have extended to everything? 18 A. I can't recall. I wasn't involved in it. 18 A. Everything? Sorry, sir? 19 19 CHAIRMAN: To all aspects of the contract? COMMISSIONER HANSFORD: Thank you. 20 CHAIRMAN: Who would have been responsible for that? 20 A. The quality management --21 A. Those plans are usually prepared fairly early in the 21 CHAIRMAN: That's a difficult question and I appreciate 22 project. The quality management side of things are 22 23 23 A. Well, generically, the quality management plan covers prepared by the quality management team. 24 the whole project, and if there are particular 24 COMMISSIONER HANSFORD: So maybe that's a question for the

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requirements of the contract that are not in there,

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quality management team.

Page 17

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- A. Maybe it is, in the same way that the safety plan's
- 2 prepared by safety management.
- 3 CHAIRMAN: All right. I would, for myself, and I think all
- 4 of us would endorse this, that obviously your suggestion
- 5 or your statement that you want to keep plans as simple
- 6 and straightforward as possible is obviously important.
- 7 Nobody wants to work on a major project like this with
- 8 confusing, overlapping plans. We accept that. And
- 9 perhaps what we are looking to here is how do you, then,
- 10 if there are specifics that are required under the
- 11 contract -- how do you ensure that those are not simply
- 12 gobbledegook layered on top of existing coherent plans?
- 13 In other words, that you are able to integrate the two
- 14 in a clean, simple, straightforward manner, where levels
- 15 of responsibility are articulated in a clean, simple
- 16 way, and everybody knows what their duties are. I think
- 17 that's what we're looking to.?
- A. That summarises it fairly well, yes. That's what we try 18
- 19 to do. So you'd look at the standard, or the generic
- 20 plan, and see whether it was appropriate for the
- 21 project. As I say, in this case, couplers are fairly
- 22 standard. There's a requirement to check them on that
- 23 pre-pour checklist. So they're already covered, in the
- 24 same way that other things are covered.
- 25 25 CHAIRMAN: All right. I appreciate that, and because we're

- 1 would have to amend it to a project-specific plan.
- 2 CHAIRMAN: Fine. So from your perspective, then, it's
 - a reasonably simple matter. There were contractual
- 4 requirements, you looked at them insofar as it was your
- 5 responsibility and/or you assume, quite correctly, with
- 6 the chain of command, that people underneath you looked
- 7 at them, and they were satisfied that whatever the
- 8 contractual requirements were of this specific contract,
- 9 they were already met within your standard terms and
- 10 procedures of quality control?
- 11 A. That would be my understanding, yes.
- COMMISSIONER HANSFORD: Just before we leave this page, 12
- 13 because I've not personally seen this document before --
- 14 after item 2, you then go on to say, "The CVs for those
- 15 personnel are included in appendix C." Are they just
- 16 the Intrafor CVs or are they also the LCAL engineering
- 17 and supervision staff CVs that are included?
- 18 MR WILKEN: Sir, the page is 39998. That should be
- 19 appendix C.
- 20 COMMISSIONER HANSFORD: And that gives me the answer?
- 21 MR WILKEN: Start scrolling, and you will see who they are.
- 22 COMMISSIONER HANSFORD: And they do include LCAL?
- 23 MR WILKEN: The LCAL people, yes.
- 24 MR CHOW: And also the CV of Edward Mok -- you recall that
 - Edward Mok is really the main person doing the

Page 18

Page 20

- looking at couplers -- and I don't wish to keep you, but 1
- 2 perhaps I could deal with it this way. You are a moving
- 3 company. You're moving my furniture into my apartment.
- 4 I have a number of paintings. I want specific
- 5 requirements in respect of my paintings. I want them
- 6 bound about with a particular type of material, I want
- 7 the corners to be protected, I want you to have
- 8 a particular officer, of particular experience, to move
- 9 them

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You have your own built-in systems for moving paintings, you've been doing it for years, and you think

12 to yourself, "I don't need to look at all of this." But

13 if you are being paid and if the terms of the contract 14 are that you will do those specific things, then even

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though you have well-tried, well-practised and entirely 16 credible procedures of your own, would you agree that

17 your requirement now is to take the extra step or two to

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meet the eccentricities of myself, who wants specific

19 measures in respect of my paintings? I think that puts

20 it as clean as I can.

- 21 A. I answer that by saying yes, you may well be right, but 22
- in the first place I would check the generic plan to see 23 whether it had enough facility in it to deal with the
- 24 particular requirements that you may set. So I think
- 25 that step's got to come first, and if it didn't then you

- 1 inspection of the coupling work -- his CV can be found
- 2 at pages 40033 and 40034, just for the purposes of the
- 3 record

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- 4 COMMISSIONER HANSFORD: Okay. Thank you.
- 5 MR CHOW: Mr Chairman, before I move on to the next topic.
- 6 just for the purpose of record -- just now, we had
- 7 a brief discussion as to whether it was part of
- 8 Mr Brewster's evidence yesterday whether he was aware of
 - the use of the couplers. I have cited a particular part
- 10 of the transcript.
- 11 My team members have helpfully located another part
 - of the transcript. I will just put it on the record.
- 13 It's page 94, lines 18 to 25.
- 14 CHAIRMAN: Thank you.
- 15 MR CHOW: Mr Brewster, I would like to move on to another
- 16 area. You recall that just now we have looked at the
- 17 various duties and responsibilities imposed upon you at
- 18 the time; right?
- 19 A. Yes.
- 20 Q. One of those duties concerned devising checklists for
- 21 specific tasks for your TCPs. Do you recall that?
- 22 A. I do.
- 23 Q. Right. Then can I ask you to go to a relevant part of
- 24 the Code of Practice. Bundle H8, page 2685, please,
- 25 paragraphs 5.1 and 5.2. 5.1 provides:

Page 21 Page 23 1 "The AP, RSE, RGE and AS [meaning authorised 1 Q. It doesn't matter. Don't worry. 2 signatory] shall devise checklists for their TCPs by 2 The relevant part that contains the specific 3 making reference to the typical items listed in 3 requirement of the Building Authority can be found at 4 tables 5.1 to 5.4 of this Code and to include any other 4 page 3928. This is subparagraphs (c) and (d), please. 5 5 particular items considered appropriate and necessary Subparagraph (c) provides: 6 6 for their projects and surrounding conditions. "The registered general building contractor ... 7 5.2. The TCPs shall carry out their duties as per 7 should assign a quality control coordinator to provide 8 the checklists devised by their own heads of stream and 8 full-time on-site supervision of the works and devise 9 9 all the checklists and inspection records shall be kept inspection checklists. The minimum qualifications and 10 on site for the inspection of the Building Authority." 10 experience of the quality control coordinator is to be 11 the same as the grade T3 technically competent person, You see that? 11 12 12 A. I see that, yes. as stipulated in the Code of Practice for Site Q. Let's go to look at relevant part of the table, 13 13 Supervision 2009." 14 table 5.4 at page 2689. This is the table which sets 14 So this is one of the specific requirements by the 15 out the standard items that have to be checked or 15 Building Authority. 16 included in the checklist. Starting from C1, C2, C3 --16 Subparagraph (d): 17 17 do you see that, the various items? "The names and qualifications of the supervisory 18 A. I see the typical items. They don't necessarily have to 18 personnel representing the competent person and the 19 19 RGBC/RSC respectively should be recorded in 20 an inspection logbook. The date, time, items inspected 20 Q. Very well. Let's go to the end of this table, at 21 page 2691. You see at the very bottom of the table, 21 and inspection results should be clearly recorded in the 22 there's an item called "Cn"; do you see that? 22 logbook. The logbook should be kept at the site office 23 23 A. I see that. and, when required, produced to the Building Authority 24 24 Q. That item would include -- what it says here is: for inspection." 25 25 "Any other items considered essential by the Then if you can go to paragraph 3 at page 3930. Page 22 Page 24 1 registered contractor for the project, including those 1 Paragraph 3 sets out the specific requirements in 2 for quality supervision and other conditions imposed by 2 relation to the inspection work: 3 3 the Building Authority at approval and/or consent "A quality supervision plan of the competent person 4 stage." 4 and the RGBC ..." 5 Do you see that? 5 Which is Leighton in that case; can you confirm 6 A. I see that. 6 that? 7 Q. Now, yesterday Mr Cheuk, counsel for the Commission, has 7 A. That's what it says, yes. 8 taken you to various acceptance letters. Do you recall 8 Q. "... is required to be submitted to this department 9 9 that? prior to the commencement of the mechanical coupler 10 A. Yes. 10 works. The quality supervision plan should include the 11 Q. In those acceptance letters, the relevant parts are 11 following details: 12 almost of identical terms regarding the full-time and 12 (a) Assignments of quality control supervisor of the 13 continuous supervision of the coupling installation 13 competent person and quality control coordinator of the 14 work; do you recall that? Or do you want me to take you 14 RGBC ... to supervise the manufacturing process of the 15 to one of those conditions? 15 connecting ends of the steel reinforcing bars, and the 16 A. Sorry, what was the question again? 16 installation of steel reinforcing bars to the couplers. 17 Q. Let's go to the acceptance letter then. Bundle H9, 17 (b) Frequency of quality supervision, which should 18 page 3908. 18 be at least 20 per cent of the splicing assemblies by 19 This is the acceptance letter in relation to --19 the quality control supervisor of the competent 20 20 first of all, dated 25 February 2013, for I think person ..." 21 a particular part of the EWL slab, between gridline 22 21 And the competent person is MTR. 22 to 49. From my understanding, 22 to 49 would be area C. 22 "... and full-time continuous supervision by the 23 Can you confirm that? 23 quality control coordinator of the RGBC ... of the 24 A. I can't remember which grids are which, but I'll take 24 mechanical couplers works. 25 your word for it. 25 (c) For couplers to be used at the top of the

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Page 25 pile cap and transfer plate, the frequency of quality

2 supervision should be at least 50 per cent of the 3

- splicing assemblies by the quality control supervisor of
- 4 the competent person and full-time continuous
- 5 supervision by the quality control coordinator of the

RGBC ..." 6

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7 So these are the specific requirements set out in 8 the acceptance letter.

9 Then, according to the requirements set out in 10 table 5.4 of the Code of Practice, you, as authorised 11 signatory of the project at the time, should have

12 devised an appropriate checklist, so as to take care and 13 to perform the requirements as set out by the BD, and

you have not done that; can you confirm that?

A. We certainly didn't set out checklists in that form, but 15 16 we rely on the fact that we've carried out the work in

accordance with the requirements, and that they are

18 satisfied by the RISC forms and the pre-pour concrete

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20 Q. Right. We are going to go to the forms later on, but

21 before that, can I just ask a few more questions, on

22 another duty imposed on you, and that is the duty to

23 supervise your TCP. Do you recall that is one of the

24 duties for AS?

25 A. One of them, yes. 1 imposed upon you, regarding supervision of your TCP.

2 You accept that, as an AS, one of the duties is to

3 give proper supervision of your TCPs to ensure that they

4 carry out the required supervision and inspection as per

5 the site safety plan and the quality supervision plan;

6

7 A. Yes, but I rely on my AS representatives to carry out

8 that function.

9 O. Right.

A. There are many plans and there are several AS reps and 10

11 it is an extremely big site.

12 CHAIRMAN: I'm sorry, I'm interrupting again. I do

13 apologise.

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14 MR CHOW: Not at all.

15 CHAIRMAN: It helps me.

16 If we go to 3(b) on the screen:

"Frequency of quality supervision, which should be

18 at least 20 per cent of the splicing assemblies by the

19 quality control supervisor ..."

20 Now, as I read that, that says that 20 per cent of

21 the splicing assemblies should be supervised or --

22 should be supervised as to the quality of the assembly.

23 A. By the competent person, which is MTR, sir.

24 CHAIRMAN: So, in other words, that MTR should have somebody

there watching at least 20 per cent of the splicing

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assemblies taking place?

2 A. That's the requirement, sir, yes.

3 CHAIRMAN: And that would mean that the splicing assemblies

4 as I spoke to you the other day and asked you

5 specifically about that --

6 A. Yes.

7 CHAIRMAN: -- means screwing the --

CHAIRMAN: -- reinforced steel bars into the couplers and

10 making sure they are firm and fit and everything works?

11

CHAIRMAN: So there should be somebody watching at least 12

13 20 per cent of those operations taking place?

14 A. That's the competent person's role, MTR, yes.

15 CHAIRMAN: As opposed to a general overview, that's

16 a specific requirement?

17 A. Yes.

CHAIRMAN: Okay. And in addition to that specific

19 requirement, then in respect of the actual putting in of

20 the reinforced bars into couplers to be used at the top

21 of the pile cap, that should increase to 50 per cent?

22 A. Yes, that's what they mean.

23 CHAIRMAN: Okay. "Top of the pile cap" means?

24 A. That description is a little bit vague, sir. I'm still

a bit perplexed as to exactly where it is. There are

Q. So, at the time, you were required --

2 CHAIRMAN: Sorry, just so that I understand -- I'm just

reading the transcript, Mr Brewster -- so what you are 3

4 saying is, you may not have had checklists in the form

5 set out there, but, as you have said before and as

6 an extension to what you have said before, you had the

7 RISC forms and you had your pre-concrete checks, and

8 they encompassed --

A. Those requirements, yes.

10 CHAIRMAN: -- those requirements?

11 A. Yes, sir.

12 CHAIRMAN: So, again, it's a case that you were able to look

13 at the requirements, look at your own procedures, and

14 say, "Those encompass the requirements anyway, so we

15 just proceed with our own procedures which are known to

16 our workers"?

17 A. Correct, sir.

18 CHAIRMAN: And when I say "workers" I mean both professional 18

19 and otherwise.

20 A. It's a similar system to MTR's as well. That's the way

21 we operate together.

22 CHAIRMAN: Okay.

23 MR CHOW: Thank you, Chairman. I will revisit this later on

24 in my cross-examination.

25 Meanwhile, can I just move on to other duties

	Page 29		Page 31
1	parts of the slabs that could be called transfer plate	1	other walks to attend with staff. So all that is in the
2	because they support some columns. I didn't concern	2	context of they're there full-time, but they're not
3	myself too much with this because essentially it's	3	standing there full-time.
4	an additional requirement for the CP. As far as we are	4	CHAIRMAN: No. So would it be correct to say these words
5	concerned, it's still got the same requirement as in	5	haven't evolved into a specific term of art which means
6	(b), so I didn't have to distinguish and understand it.	6	everybody with a hard hat who's got an engineering
7	CHAIRMAN: Right. We may well be getting evidence from	7	degree knows exactly what that means? That wouldn't be
8	other people, but I don't recall anybody saying at the	8	the case?
9	moment and I'm open to correction, always, on these	9	A. No, sir.
10	matters, and no doubt will be I just don't recall	10	CHAIRMAN: But equally, common sense dictates it doesn't
11	anybody from Leightons saying, "I knew I had a duty to	11	mean standing there all day long, watching each and
12	actually watch 20 per cent of the assemblies taking	12	every coupler, but that's common sense
13	place, and I therefore ensured"	13	A. It's common sense.
14	A. Not us, sir, MTR.	14	CHAIRMAN: not necessarily adherence to the words,
15	CHAIRMAN: I'm sorry, MTR. Okay, that's why I haven't heard	15	because lawyers learn that contracts and common sense
16	that yet. So there's the MTR people. And your people	16	aren't necessarily the same thing.
17	would have had more of a continuous supervision duty?	17	A. I don't know how to answer that one.
18	A. Correct.	18	CHAIRMAN: Well, you may well find that there are questions
19	CHAIRMAN: Okay. So MTR had to have somebody there to watch	19	put later suggesting that you should have followed the
20	20 per cent or 50 per cent; okay? And you had a duty of	20	contract as opposed to common sense. Do you see what
21	full-time continuous supervision?	21	I mean?
22	A. Yes.	22	A. I take your point, sir, but I think our work and our
23	CHAIRMAN: Then the question is what does "full-time	23	profession is a very practical profession.
24	continuous supervision" mean: does it mean something in	24	CHAIRMAN: Good.
25	addition to well, obviously it's in addition to what	25	A. We don't take things to the nth degree.
	Page 30		Page 32
1	MTR were going to do is it more stringent or is it	1	COMMISSIONER HANSFORD: Could I just interject here,
2	just a general backup?	2	Mr Brewster, because I also come from the same
3	A. To me, it's more words. It's somewhat confusing, and	3	profession as you, and I share your approach of it being
4	how do you read it with "continuous"? As I said, we	4	very practical, but when a specification is unclear or
5	have the staff there to build the project, and they are		very praetical, cat when a specification is uncoun or
	have the start there to build the project, and they are	5	ambiguous in any way, is there a process that you as
6	there continuously. They are on site full-time. But	5 6	
6 7	2 2		ambiguous in any way, is there a process that you as Leighton would go through with your employer, MTR, to seek clarification about what's really meant by
	there continuously. They are on site full-time. But	6 7	ambiguous in any way, is there a process that you as Leighton would go through with your employer, MTR, to
7	there continuously. They are on site full-time. But they don't stand out there 100 per cent of the day. CHAIRMAN: Yes. Sometimes, within a trade or an industry or a profession, certain general terms which are otherwise	6 7	ambiguous in any way, is there a process that you as Leighton would go through with your employer, MTR, to seek clarification about what's really meant by a particular unclear statement? A. Anything that's unclear at any time, it's usually dealt
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3

- 1 understanding of what was meant by both parties to the
- 2 contract?
- 3 A. I don't know that specifically. I'm surmising that's
- 4 the case. But yes.
- 5 COMMISSIONER HANSFORD: Thank you.
- 6 MR CHOW: If I move on to the next subject -- can I just
- 7 follow up on the discussion earlier. When you said
- 8 about staff being full-time on site would be able to
- 9 satisfy the requirement of full-time and continuous
- supervision, am I right to say that, as a matter of
- common practice in Hong Kong, site supervision staff are
- inevitably employed full-time on site? We seldom have
- part-time staff being employed to do the site
- supervision. Am I right to say that?
- 15 A. Most of the contracts we do are large-scale contracts
- and their staff are full-time.
- 17 Q. Right.
- 18 A. We don't generally have part-time staff, unless it's
- something out of the usual.
- 20 Q. So do you agree that if that is what these requirements
- 21 intended, it would be wholly unnecessary to put this as
- a specific requirement because as a matter of common
- practice most of the site supervision staff would be
- 24 employed full-time on site? Do you agree with me?
- 25 A. I didn't write it so I can't comment on that. I don't
 - Page 34
- 1 know what's in the writer's mind but I know what's in
- 2 mine.
- 3 Q. In paragraph 3(b), when it specifically referred to
- 4 "Frequency of quality supervision", and then mentioned
- 5 "full-time continuous supervision", do you agree with me
- 6 that that would mean something other than the staff
- 7 having to be employed full-time on site? It must mean
- 8 something different, do you agree?
- 9 A. I can't see there's anything different about it. Staff
- are there full-time; they are continuously on site.
- 11 Q. If I may then move on to another area.
- 12 A. Sorry?
- 13 Q. You recall that one of your duties relates to
- supervision of your TCP. Do you recall that?
- 15~ A. Yes. You asked me a few minutes ago, yes, and I said
- I do that through the AS reps.
- 17 Q. Now, earlier you told us that at the time you were not
- aware of the specific requirement -- I don't want to
- repeat all the details, but I refer to specific
- 20 requirement, it would be in relation to full-time and
- 21 continuous supervision of the coupling works.
- 22 A. Okay.
- 23 Q. You told us that at the time you were not aware of the
- specific requirement. The members of the site
- supervision team and site engineering team told us that

- they were not aware of the specific requirement either.
- 2 So my question is, being an authorised signatory, have
 - you -- although you yourself were not aware of the
- 4 details of the QSP, have you taken any steps to ensure
- 5 that your TCPs were aware or ought to be -- were aware
- of the specific requirement, whatever it may be, set out
- 7 in the quality supervision plan?
- 8 A. Like I said, I rely on the assistance of the site staff
- 9 in general, and particularly the AS reps, to cover all
- those requirements when they're developing the SSPs.
- 11 CHAIRMAN: Sorry, again -- I think I'm getting there now --
- 12 please forgive my tardiness -- but would it be correct
- product respect to the state of the state of
- 13 to say then your understanding was that the MTR
- 14 contractually had a specific obligation to watch
- 15 20 per cent of the assemblies and/or 50 per cent; right?
- 16 So they had an obligation, they know that the assemblies
- are taking place, they've got to go down there, and
- they've got to be able to show later, with a record,
- that they've watched 20 per cent of these assemblies go
- in or 50 per cent?
- 21 A. It's quality supervision.
- 22 CHAIRMAN: Of the assemblies taking place?
- 23 A. Of the assemblies, yes.
- 24 CHAIRMAN: Because assembly is an act taking place within
 - a specific time period.

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1 A. Yes.

- 2 CHAIRMAN: So they've got to watch 20 per cent of those
- 3 taking place?
- 4 A. That's what that says. Again, RISC forms, pre-pour
- 5 checks -
- 6 CHAIRMAN: I'm talking about the MTR doing that.
- 7 A. They're signed by the MTR as well.
- 8 CHAIRMAN: Yes. And your people have an obligation to
- 9 conduct full-time continuous supervision.
- 10 A. Yes.
- 11 CHAIRMAN: I suppose where I have a problem is this. We've
- agreed that it's not a term of art which everybody in
- the industry, the minute they put on a hard hat, knows.
- 14 You've agreed that it's in fact a little ambiguous. So
- what did it in fact mean for you in this contract so
- that it met the terms of your obligations? That's where
- 17 I've got a bit of a difficulty.
- 18 A. Well, again, we rely on the fact that we have covered
- that in our quality management plan, by following MTR's
- 20 RISC form and our pre-pour checks. And the rebar
- 21 checking that we've heard from other people was done
- 22 rigorously.
- 23 CHAIRMAN: Okay.
- 24 A. We've heard from witnesses about walking up and down,
- et cetera, et cetera. Continuously supervised.

Page 37 Page 39 1 1 CHAIRMAN: All right. have qualified people conducting full-time continuous 2 2 Good. Thank you very much. supervision. 3 MR CHOW: Mr Brewster, just now you mentioned that you 3 A. Yes. 4 relied on your representatives; do you recall that? 4 CHAIRMAN: And that was done in terms of their standard 5 5 A. Yes. procedures, they had people who spent -- like Edward Mok 6 Q. Am I right that your representatives would report to you 6 has said, he spent four hours a day on site watching, 7 at the time; is that right? 7 and it was done by the various other hold point matters 8 8 A. When you say "report", what do you mean? I mean, such as seeking the pre-concrete pour inspection and the 9 9 I relied on them to --RISC documents, et cetera, which confirmed that. 10 Q. In relation to the work that they performed regarding 10 So it seems to me what he's saying is the specific 11 compliance of the quality supervision plan or site 11 requirements -- because otherwise we are chasing our 12 12 supervision plan. tails around and around here -- the specific 13 A. They didn't report to me about those sort of matters. 13 requirements were in fact your standard requirements, 14 If there was an issue that required my attention, we 14 and as far as you were concerned your standard 15 would talk about it. There were several 15 requirements for inspection met the obligation for 16 representatives. They were managing that process, and 16 full-time continuous inspection? 17 I'm comfortable with that. 17 A. Yes, sir. 18 Q. Let's put it this way. We know from evidence of the 18 CHAIRMAN: That I think is it. 19 other Leightons witnesses that those who carry out 19 MR CHOW: Thank you, Mr Chairman. 20 20 Now, can I ask you to look at paragraph 5 of your actual inspection and supervision on site were not aware 21 of the specific requirement. You yourself at the time 21 second witness statement, at page 26540, bundle C35. 22 were also not aware of the specific requirement. 22 There you said: 23 My question was whether you have taken any steps to 23 "In paragraphs 6 and 7 of Mr Ho's second 24 24 ensure that those actually carrying out the supervision statement" -- Mr Ho is the witness of the Buildings 25 25 Department -- "he refers to the QSP and sets out the and inspection work were aware of the requirement, and Page 40 Page 38 then your answer was you relied on your representatives 1 1 requirement of the 'MTRC TCP T3 independent checklist 2 on site. So that is your evidence; is that right? 2 for on-site assembly" --3 3 A. Correct. They had to do that. They are the ones that A. Can you move the screen down a little bit? I'm looking 4 are more conversant with the contract, the contract 4 at the wrong paragraph. 5 requirements. They're doing the liaison with MTR. 5 Q. This is the right paragraph, paragraph 5. 6 They're in a better place than me to judge those things. 6 A. It is now, yes. 7 7 If they've got a problem, they'll let me know. Q. You've got that? 8 8 A. It's okay. It was on the wrong screen. Q. Sure. Then have you ever checked with your 9 9 representative whether he has taken any steps to ensure Q. Then he goes on to say: 10 that the people working on site know exactly what they 10 "This checklist document references panel numbers, 11 need to do? Have you ever checked, or did you not care 11 the arrival date of threaded rebar (which is stated to at all? 12 12 be 'Based on purchase order for each panel from 13 13 A. As I said, I relied on them to do it. If they had Intrafor') and includes a column titled 'Verticality 14 14

a problem, they'd let me know. They're in that 15 situation, they're out on site, they're fully aware of 16 all the requirements; they're dealing with it. 17 Q. So your answer is you have not checked with your 18 representatives; right? Is that your answer? 19 A. I haven't specifically --CHAIRMAN: I don't think it's his answer. My understanding 20 20 21 is -- and correct me if I am wrong -- that what 22 Mr Brewster is saying is that leaving aside the specific 23 requirement placed on MTR to do a 20 per cent or

a 50 per cent specific inspection of the coupling taking

place, there was a requirement placed on Leighton to

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checking for coupled rebars (10 per cent per column)'. This indicates that this checklist document was intended to be used for couplers in the diaphragm walls. In fact, all of the couplers used to connect rebar in the slabs to those in diaphragm walls or at construction joints in the slabs were horizontal. Thus, there was no prescribed form of checklist for the couplers that were used to connect the rebar installed in the slab. In this context, Leighton used a different set of forms (Leighton's pre-pour quality control checklist and MTR's prescribed RISC forms) to record the inspections done on rebar and couplers in the slabs. This is consistent

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- 1 with Leighton's obligations under the BD consultation
- letters, which merely require that Leighton 'devise itsown checklists'."
- 4 Now, we have heard what you said yesterday. Can
- 5 I ask you to go to the quality supervision plan at
- 6 bundle H9, starting at page 4263, please.
- 7 Do you accept that the checklist attached as
- 8 appendix B and appendix C were meant to be sample
- 9 checklists only? Do you accept that, at pages 4277 and
- 10 4278?
- 11 A. Sorry, where does it say "sample"?
- 12 Q. Sorry?
- 13 A. "Sample", what do you mean by "sample"?
- 14 Q. They would attach to the quality supervision plan
- a sample and Leighton has to devise an appropriate
- 16 checklist to suit the particular type of work being
- 17 carried out. That is what I meant. Do you agree with
- 18 that?
- 19 A. I'm not too sure that they were intending to amend this.
- It was the form that they were going to use.
- 21 Q. Okay. Let's go back a little bit to appendix A, at
- page 4271. This is appendix A. The heading is
- 23 "Technical background on installation of couplers to be
- used in any location including barrettes and D-wall
 - panels."

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- 1 1. The protective PVC caps can be removed only 2 after delivery and preparation for inspection ...
 - 2. After removal of the protective PVC caps, couplers are checked for any damage ...
 - 3. Thread/couplers must be checked for any existence of concrete gal, debris and foreign material ...
 - 4. Once couplers are fully engaged and tightened. Use a regular pipe wrench/chain wrench to tighten the splice. In specific torque amount is required.
 - 5. The coupled rebar will be checked for the verticality by spirit level.

The above-mentioned inspection check would be 100 per cent carried out on site by quality control supervisors ([of the] RC]). Quality control supervisors (MTRC) will carry out random sampling check by at least 50 per cent on the verticality."

So what it says, if you look at this document in context, appendix B and appendix C were meant to be sample checklists which provide you with guidelines and this shows you what sort of information you need to show in your checklist to be devised by you to suit the

construction of the slab. Do you agree with me?

A. Well, some of those items don't relate. In fact,
I don't think the sheets relate to us. As I said

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- 1 Do you see that?
- 2 A. I can see that, yes.
- 3 Q. Then if we go on, the following few pages provide
- 4 details regarding BOSA's preparation work. Then if we
- 5 go on, all the way to the section (v) at page 4276 --
- 6 have you got that? So this section deals with the work
- 7 carried out on site, and it provides that:

"All inspection record of control threading and threading will be documented and signed by the inspector of BOSA. The site [supervision] forms are to be completed by quality control supervisors (RC) and counterchecked by quality control supervisors (MTRC). All inspection record should be maintained at site for inspection by relevant parties. (Sample inspection

record sheet with example is attached for reference)."

Then we have the two samples attached as appendix B and appendix C. So do you agree that the checklists attached as appendix B and C are meant to be sample only?

- 20 A. That's what the words say, yes.
- 21 Q. Before we move on, perhaps as we are on this document,
- at 4276, the same page where we find the section with
- 23 the (v), at the top of the page, it also provides that:
- "Quality control supervisor [of the contractor] will fully supervise the installation on site as [follows]:

- 1 yesterday, we have to devise new sheets. I don't think
- you can say they are a sample or an example if theydon't fit at all. We would use our own system becau
- don't fit at all. We would use our own system becausethat fits perfectly.
- 5 Q. Mr Brewster, I'm afraid I have to suggest to you that 6 you knew perfectly well what was required of you in
- 7 terms of the format of the checklist for the coupling
- 8 works in the EWL slab. Do you agree with me?
 - A. I knew perfectly well what, sorry?
- 10 Q. The format required of you in relation to -- perhaps11 I will start again.

You knew perfectly well that the pre-pour quality
control checklist and the RISC forms that you now relied
on were not sufficient to satisfy the requirement of
contemporaneous record for the inspection of the
coupling work, as required under the quality supervision
plan.

- 18 A. I'm not too sure what you mean by a contemporaneous
- record. I mean, we've already discussed supervision, and in terms of what we've done I'm satisfied that the
 - and in terms of what we've done I'm satisfied that the forms that we've used do satisfy the requirements.
- Q. All right. Now, can I ask you to look at -- go tobundle G12, page 9883.
- 24 CHAIRMAN: Sorry, I'm interrupting again.
- You would agree that contemporaneous -- again, it's

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- 1 a term open to interpretation -- in your instance,
- 2 people would be looking, they would satisfy themselves,
- 3 and then they would fill out a form?
- 4 A. Fill out the RISC forms and the pre-pour checks, yes.
- 5 CHAIRMAN: That's right?
- 6 A Yes
- 7 CHAIRMAN: Those forms would be filled out not on site as
- 8 such but they would go back to the site office probably
- 9 and fill out those forms?
- 10 A. Yes.
- 11 CHAIRMAN: As opposed to, for example, if it was to be the
- 12 case, of having a tablet or something like that where
- 13 you could go along, check everything was okay and just
- 14 with a tap, using modern technology, get a confirmation
- 15 on site, instantly. So we're now juggling with
- 16 contemporaneous and instant. Do you see what I mean?
- 17 A. I'm sure we'll get there one day, sir, with tablets that
- 18 give us instant answers, but right at the moment we're
- 19 still dealing with paperwork.
- 20 CHAIRMAN: I wonder if in fact, and no doubt we'll find out
- 21 in due course if in fact there aren't very large
- 22 building projects around the world which are in fact
- 23 using instantaneous records.
- 24 A. We do use them for certain things but not in this
- 25 instance.

1 produce a series of these documents in June this year?

- 2 A. My understanding is we were asked to produce it. It's
- 3 a summary document, nothing more, nothing less, as
- 4 I said yesterday.
- 5 Q. Okay, so that is your answer.
- 6 A. Yes.

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- 7 Q. Can I ask you to go to a document. It's a letter from
- 8 the Buildings Department to Leighton, dated 10 August 9
 - this year, at bundle H14, page 7810.
- 10 So this is a request from the Buildings Department
- 11 on 10 August 2018, addressed to you, in which Buildings
- 12 Department request for a number of documents and records 13 from Leighton.
 - The relevant part is items (b) and (c). The
- 15 Buildings Department asked for:
- 16 "All the checklists and inspection records" --
- 17 MR WILKEN: Sir, I hesitate to interrupt but we did have
- 18 a debate yesterday about the scope of the terms of
- 19 reference. I'm not sure where this goes in terms of the
- 20 terms of reference, because this relates to an issue
- 21 which you touched on yesterday, sir, about debates
- 22 between the Buildings Department and my client as to
- 23 action that was taken before this Inquiry began in
- 24 September.
 - So if my learned friend is pursuing this line

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- CHAIRMAN: So what you are saying then is this, you were 1
- 2 satisfied, met all the obligations? You had your system
- 3 of pre-concrete checks, you had your RISC forms. They
- 4 were contemporaneous in the sense that the qualified
- 5 people looked at it, satisfied themselves that what was
- 6 ready was properly constructed. They went back to the
- 7 site office and they filled out their forms, and that
- 8 met the obligations of being contemporaneous?
- 9 A. Yes, sir.
- 10 CHAIRMAN: If not instant?
- 11 A. Certainly not instantly, no.
- 12 CHAIRMAN: No. Good. Thank you very much, sir.
- 13 MR CHOW: Mr Brewster, now on the screen is a document
- 14 created by Leightons in June this year, and the title is
- 15 "As-built for on-site assembly of EWL slab", probably
- "D-wall/slab couplers"; do you see that? 16
- 17 A. I see the document, yes.
- 18 Q. I now have to suggest to you that you knew well this is
- 19 the kind of document that Leighton should have used at
- 20 the time of the construction of the slab to record the
- 21 inspection carried out and the result of the inspection.
- 22 A. No, I don't agree. We are happy with the system we
- 23 followed. It meets the contract requirements and the
- 24 regulatory requirements.
- Q. In that case, can you explain why Leighton bothered to

- I would be grateful to know how this falls within the
- 2 terms of reference.
- 3 Thank you, sir.
- 4 MR CHOW: I believe that part of the terms of reference
- 5 relates to the project management carried out by
- 6 Leighton. We see that retrospective documents were
- 7 created. The purpose of these documents certainly would
- 8 be something that the Commission needs to consider, and
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- that would have an impact on the recommendation or the
- 10 criticism, if it deserves any criticism, in relation to
- 11 the project management work of Leighton, which may
- 12 result in the problems that we are dealing with today.
- 13 Now, my series of questions --
- 14 CHAIRMAN: Sorry, I don't wish to interrupt, although
 - I am -- my apologies -- but it seems to me that what is
- being said by Mr Brewster, and obviously the 16
- 17 ramifications will be considered in due course by myself
- 18 and my co-Commissioner, is that these particular
- 19 documents which are self-explanatory, we can look at
- 20 them, we can see what has been put in there by hand and
- 21 what has been put in by way of typing, et cetera --
- 22 these documents were simply a summary requested by
- 23 government and put together therefore as a summary by 24 Leightons.
- 25 What that means, in fact, by way of ordinary

Page 49 Page 51 1 deduction, is they didn't prepare such documents at the 1 that's a compilation --2 2 MR WILKEN: Sir, there was a letter which was the covering time. The question then becomes: should they have 3 3 prepared such documents at the time? letter to this document, which you have not been shown. 4 Ouestioning Mr Brewster now as to the good faith or 4 CHAIRMAN: Okay. 5 otherwise of these documents -- and I think we can put 5 MR WILKEN: And that makes clear the exercise that was going 6 6 on, and I will be taking the witness to it in it that way -- I don't think is going to advance the 7 issue, because our issue really is perhaps they should 7 re-examination. 8 8 have prepared documents like this, this is what would CHAIRMAN: Good. In which case, that then -- because, 9 9 putting it in its most basic terms, this Commission have been included, this would have ensured accuracy, 10 whereas a summary prepared later, which has handwritten 10 doesn't want to be distracted by a long argument as to 11 circles going around yes and no, two years after the how this documentation is to be interpreted --11 12 12 MR WILKEN: Yes, sir. event, doesn't help. Do you see what I mean? 13 13 CHAIRMAN: -- in the sense of moral culpability for making So I don't know that it's for us to start moving 14 into questions as to culpability as to a moral position. 14 something look what it's not. Okay? 15 We may be wrong there. That's an opening from me. 15 MR WILKEN: Sir --16 Perhaps what we will do is just have the morning tea 16 CHAIRMAN: And obviously, if in fact any bad faith is shown, 17 17 and none is suggested for one second here, against break now for 15 minutes, and you can tell me where you 18 think I may be wrong in my provisional and opening 18 Leighton or anybody else, but if it is shown by any 19 19 position. Okay? witness in the course of a Commission of Inquiry in the 20 public interest then that's a matter which obviously the 20 MR CHOW: Yes. 21 CHAIRMAN: Good. Thank you. 21 Commission will look at. 22 22 What I understand from Mr Brewster is, "Yes, these (11.23 am) 23 documents didn't exist at the time, I understand them to 23 (A short adjournment) 24 24 be nothing more than a summary of information obtained (11.45 am)25 25 CHAIRMAN: I just want to ask a couple of questions. from contemporaneous documents and put into an easily Page 52 Page 50 1 Mr Brewster, there was an exchange just before the 1 understood set of terms, in compliance with the 2 2 tea break, which you witnessed. Can we go to the one request", no more than that. 3 document, the data, the compilation of data? 3 MR WILKEN: Exactly, sir, and one gets the hint from the 4 MR WILKEN: G12/9883? 4 document itself because it says at the top left corner 5 COMMISSIONER HANSFORD: The one that was on the screen jus 5 "As-built", so that could not exist in 2015. 6 before the break. That's the one. 6 CHAIRMAN: All right. And you say there's a letter which 7 CHAIRMAN: There we go. 7 again makes it clearer? 8 I just want to ask you a couple of questions about MR WILKEN: I can take you to it now, if it helps. 9 that. My understanding is, from what you have said CHAIRMAN: Yes. 10 already, that this form of document didn't exist in 10 MR WILKEN: H14/7814. 11 COMMISSIONER HANSFORD: Just a point though, Mr Wilken 11 A. That's my understanding. It was recently created as 12 12 "As-built" doesn't necessarily mean that it's new, 13 13 a summary document. because once it's built, it's built. So you could have 14 CHAIRMAN: To your understanding, it's a recent document. 14 a record as-built produced pretty close to the time it 15 Perhaps someone else, like Mr Taylor, will assist us far 15 was built. 16 more in this regard. Would you agree that it's 16 MR WILKEN: You could, sir, but obviously if we're talking 17 unhelpful, to put it mildly, to supply a document in 17 about 2015 -- Mr Pennicott I see has risen, has already 18 proceedings like this, which is a compilation of 18 introduced the concreting records and shown the 19 historical data, if in fact what you are doing, without 19 progress, so it would be difficult -- I haven't checked 20 any intention implied, is making it look as if it is in 20 the panels on this, but it would be difficult for there 21 fact an old document, that is a document compiled back 21 to be as-builts in relation to some of the areas at 22 in 2015, when this data was put there? 22 certain periods of 2015. A. I wasn't involved in it, but my understanding is that 23 23 COMMISSIONER HANSFORD: I understand that. 24 wasn't the intention, sir. 24 MR PENNICOTT: Can we just see the date of the letter CHAIRMAN: But it's not good practice to make a document 25 Mr Wilken was about to show you? It's 29 August this

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With respect, there's no point jumping in at the end of the story rather than at the beginning of the story. This is the end of the story.

The beginning of the story is simply this -- and it's all explained in the witness statements of the MTR, and to some extent the government -- the retrospective record that we were looking at at G9883 just a moment ago came into existence at the beginning of June this year.

They were a whole series of them, relating to different panels. They were attached by Leighton to a series of RISC forms which were submitted to MTR. The government wanted to inspect the RISC forms, so in four days at the beginning of June the government went along to the site office of the MTR, as I understand it, and were shown these RISC forms with those documents attached, that is the retrospective records.

The government's position, as I understand it, is that at that time certainly no explanation was given by MTR/Leighton to the government that these were anything other than contemporary documents. It only came two months later, on 29 August, when it was pointed out that they were indeed retrospective records. The government officers who went along on the site visit at the

CHAIRMAN: Yes.

2 MR CHOW: I am really puzzled, sir. I haven't posed my

3 question yet.

4 CHAIRMAN: I appreciate that, but sometimes a question is --

5 Mr Chow, you may be absolutely right, and this is one

6 occasion when perhaps timidity is the better part of

7 valour, and let me -- in case we are vaguely in the

8 right area, Mr Brewster, it seems to me, has said he

9 didn't realise this document existed at the time, he

10 hasn't been involved in compilation of data since or in

11 direct discussions with government. It seems that if

this issue arises, there may be other witnesses who can better deal with it.

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So Mr Brewster has done his utmost and valiantly to assist us in areas of all kinds, and I appreciate he has that obligation because he has a very high position, built on many years of experience. But if we're going to go down this line, perhaps Mr Taylor might be a better witness. I don't know.

Now your question.

21 MR CHOW: Perhaps before I answer to the question raised by

22 Mr Chairman before the break, can I just supplement to

23 my learned friend's submission earlier regarding the

24 inspection that was carried out by the government's

representative in early June this year?

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1 beginning of June, it seems to me, reasonably

2 believed -- obviously we can cross-examine them in due

3 course -- that these were straightforward contemporary

4 documents.

5 That's the beginning of the story at the beginning 6 of June 2018. It's no good, with respect, going to what

7 happened on 29 August.

CHAIRMAN: All right. Thank you very much.

MR WILKEN: If I can be allowed to finish my submission --

10 CHAIRMAN: Yes.

11 MR WILKEN: -- having heard what Mr Pennicott said, the

12 point goes to this. Mr Chow is cross-examining on

13 28 November, which is after 29 August. He is putting

14 a line of questioning that this document is relevant to.

And the only passage I want to refer you to is at

16 item (c), where it says:

> "The original of these documents was produced in June 2018 and for some bays in the EWL slab, the documents were updated recently to generally reflect the replacement of couplers with straight through-bars ...",

Mr Chow can properly put, "Yes, my witnesses didn't understand that in June", but if he is going down that line he has to put this document to my witness. That's simply my point.

CHAIRMAN: Mmm.

2 MR CHOW: Actually the document that has been put on the

3 screen is not the version that was provided to the

4 government inspector in early June. There was

5 an earlier version, and that version was without the

6 heading "As-built" at all. I will come to that. This

7 is part of my cross-examination and I haven't arrived at

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CHAIRMAN: I appreciate that. The only problem I have, and 9

10 I come back to it again, is: is Mr Brewster the correct

11 witness to put this to?

12 MR CHOW: Yes. Before the break, what I intended to do was

to take Mr Brewster to two letters. I took him to the 13

14 first letter before my learned friend Mr Wilken jumped

15 up. In fact, in my line of questions, I intended only

16 to take Mr Brewster to two letters, and the second

17 letter is precisely the letter Mr Wilken has shown you, 18

19 The point that I made by that line of questions --20 we are not trying to dispute the element of good faith

21 in the preparation of that checklist at all, because at

22 the moment, according to Mr Brewster's evidence, he

truly believes that the RISC form together with the cast

24 in situ quality control form were sufficient to satisfy

the requirement. This is the evidence of Mr Brewster,

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Page 57 Page 59 1 even up to this very moment. 1 leave it to the Commission as to how far we go down this 2 2 What I intended to do is just demonstrate that 3 Mr Brewster, at least in this particular respect, is 3 CHAIRMAN: All right. 4 less than frank, because in the two letters it is quite 4 Mr Chow, you already heard our concerns that 5 clear that -- first of all, in the first letter, what 5 Mr Brewster is not the person to deal with the history 6 the Buildings Department was asking for is, "Leighton, 6 of this documentation; okay? That we think is better 7 please provide the documents required under the quality 7 dealt with in detail with another witness or witnesses. 8 8 supervision plan, the logbook and the checklist", and We understand the point you are wishing to make in 9 about two weeks later Leighton produced the checklist 9 respect of Mr Brewster, which is a limited point now. 10 10 that we see with the heading "As-built". It has been articulated already in open enquiry that 11 Now, what this demonstrates is instead of what 11 there's an issue of frankness, and I think in fairness 12 Mr Brewster now is telling the Commission, that he truly 12 to Mr Brewster he is entitled to be able to answer that, 13 believed that the other two forms are sufficient, this 13 and that means that you are entitled to put the 14 may not be correct, because under Mr Brewster's own 14 particular questions. That's number one. 15 hand --15 As backup to that, obviously any suggestion, implied 16 CHAIRMAN: Okay, I think we have that, yes. Thank you. 16 or otherwise, or even if it's in reserve, that there may 17 Mr Wilken? 17 not have been full frankness in dealing with this 18 MR WILKEN: Sir, ves. 18 Commission, is a matter of some importance to the CHAIRMAN: Do you have anything that you would like to say 19 19 Commission itself. Therefore, the questions which you 20 as to those questions being put, that relate to the 20 articulated, limited to that small area, I think can 21 21 properly be put. 22 MR WILKEN: Sir, he's already put the point to Mr Brewster 22 MR CHOW: Thank you, sir. 23 and had his answer I think on three or four occasions. 23 CHAIRMAN: Thank you. 24 MR CHOW: I haven't. 24 MR CHOW: Mr Brewster, can I ask you to go back to the MR WILKEN: Can I just finish? 25 letter of request from BD, bundle H14, page 7810, Page 58 Page 60 CHAIRMAN: Thank you. I will say who can speak, Mr Chow. 1 1 please. 2 Thank you very much. 2 This letter was addressed to you. Under items (b) 3 3 MR CHOW: I'm sorry. and (c) of the request, BD asked for: 4 CHAIRMAN: I have asked Mr Wilken to address me. 4 "(b) All the checklists and inspection records of 5 MR WILKEN: He's already put the question as to whether 5 the technical competent persons under the stream of 6 Mr Brewster believes that the RISC forms and the 6 authorised signatory in relation to the construction of 7 pre-pour concrete checks are sufficient document and 7 diaphragm wall and slabs (including EWL and NSL platform 8 he's already put the question, "You made this checklist 8 slabs); 9 9 in 2018. Should you have had this one in 2015?" (c) The inspection logbook of the quality control 10 Those, I submit, are perfectly legitimate questions 10 supervisors representing the registered general building 11 and they fall fairly and squarely within the terms of 11 contractor [that is Leighton] in respect of the 12 12 reference and we made no objection to them. mechanical couplers works". 13 13 Do you see that? Where it becomes more interesting is my learned 14 friend said he might be suggesting that Mr Brewster is 14 A. I see that, yes. 15 not being quite frank. If he's going to make that 15 Q. Do you agree that in this letter the Buildings 16 suggestion, he has to put it fairly and squarely, and 16 Department did not specify a particular type of 17 possibly in a short question, because Mr Chow criticised 17 checklist or particular form of checklist that they me for jumping up before he finished his question. 18 18 expect you to produce? 19 I haven't jumped up before when there have been multiple 19 A. No, they just asked for all checklists. 20 and long questions put to this witness which have been 20 Q. Let's go on to look at your response. The same bundle, 21 21 somewhat confusing. H14, page 7813. 22 I'm not sure where the line of questioning is going. 22 This is a letter issued by you in response to BD's 23 23 I've said what I think is legitimate in terms of the specific request. If you look at the bottom of the 24 questions that Mr Chow can ask in terms of 24 third page, 7815, this is your signature; is that right? 25 record-keeping at the time. I've said my piece and I'll 25 A. Correct.

Works at the Hung Hom Station Extension under the Shatin to Central Link Project Page 61 Page 63 1 Q. If you then go back to your specific answer to the 1 Q. Are you aware of the existence of this document in June 2 2 request (c) at page 7814, you said: 2018? 3 3 "[For] your request for '... inspection logbook of A. I can't recall. I may have seen it. There was a lot of 4 the quality control supervisors representing the 4 focus around that time on preparing the documents for 5 registered general building contractor ... in respect of 5 that BD inspection that you refer to. As I say, 6 the mechanical couplers steel works', 6 I didn't prepare this. I cannot remember whether I saw 7 We refer to the construction records included in 7 it or not. 8 appendices A2 and A3 for the EWL and NSL platform slabs 8 Q. Okay. So obviously you have no idea as to who prepared 9 Q this list or who put the record -- the circles, for respectively. The construction records for each 10 10 concrete pour of the platform slabs include a signed example, in the lower part of the checklist; you have no 11 copy of the 'LCAL concrete quality control checklist' 11 idea, right? 12 which includes a hold point ... for the inspection of 12 A. I don't, no. 13 13 couplers. We have also included in appendices A2 and CHAIRMAN: Sorry, I do apologise here again. I'm noticing 14 A3, a summary document entitled 'As-built for on-site 14 a couple of basic things which I'm sure are easily 15 assembly of couplers' which shows, for example, the 15 explicable. Number one, this is a printed form, which 16 arrangement of couplers in each concrete pour. The 16 tends to suggest, if you're printing something, you're going to use it more than once; it's going to be 17 original of these documents was produced in June 2018 17 18 and for some bays in the EWL slab, the documents were 18 a general form for use. 19 19 A. Yes. I think it's been used in various places, in the updated recently to generally reflect the replacement of 20 couplers with straight through-bars for the east 20 bundles. Exactly where, I'm not sure where it fits, 21 diaphragm wall connection in areas B and C." 21 22 Now, given that without being requested by BD to 22 CHAIRMAN: Okay. Then it's got a legend at the bottom, and 23 23 produce the form, the as-built checklist that you if you have a look at the legend, it says, "Cross out as 24 24 appropriate", "Satisfactory", "Not satisfactory", referred to, Leighton automatically produced those 25 documents as an answer to the request for documents to 25 "Ensure ease of connection", et cetera.

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1 be kept in the inspection logbook -- do you follow that?

2 A. Yes.

7

13

14

15

3 Q. That confirms that at that point, you believe that to 4 satisfy the requirement of the quality supervision plan,

5 the as-built checklist that we have just sheen on the

6 screen is the kind of checklist that should have been

used during the execution of the site? Do you agree

8 with my suggestion?

9 A. I don't agree with your suggestion that that was the 10 kind of checklist that had to be used. As I said, we've 11 used our own system in compliance with the requirements 12 of the contract.

> Regarding this particular form, it was an update that was submitted under this letter, and again, I just repeat, it was a summary document. It wasn't meant to

be anything more or anything less. 16 17 Q. Thank you, Mr Brewster. I will move on then. 18 Can I ask you to go to bundle H14, page 35067, 19 please. This is the checklist shown to the government's

20 inspectors their during the site inspection in early 21 June this year. You can take it from me.

22 If you look at the heading, it's put as "Checklist

23 for on-site assembly of EWL slab to D-wall/slab 24 couplers"; do you see that?

A. I can see that, yes.

1 To me, as a -- I use the term all the time, please

2 forgive me but it's necessary to preface it --

3 layperson, I pick that up and think it's an ordinary

4 document for use every day, with instructions to the

5 engineers as to how to fill it out.

6 A. No. Well, it's a summary document prepared in sometime

circa June this year.

CHAIRMAN: Okay.

9 COMMISSIONER HANSFORD: I think we understand that because

10 we know that the box at the top that's got the diagrams 11 or the sections showing the bars and the number of bars

12 have been printed on there on the form, and that they're

13 therefore specific to a particular bay. Those won't

14 appear on every form; each form will be specific for

15 an individual bay, isn't that correct?

16 A. That would be my understanding, and then that was

17 revised subsequently, in the other one we were taken to,

18 the other document. This is the first iteration.

19 COMMISSIONER HANSFORD: What perhaps is slightly curious is

20 that while some of it is printed, some of it is actually

21 put on there in manuscript, and one wonders why, for

22 a summary document, it wasn't all printed on there, but

23 I'm sure we will come to that later.

A. I'm sorry, I can't help you with that one.

COMMISSIONER HANSFORD: I wasn't expecting you to. Thank

1	Page 65		Page 67
	you.	1	document, please, sorry this is a police statement,
2	MR CHOW: Mr Chairman, I have no more questions. I will sit	2	and if you go to 35016.4
3	down now.	3	COMMISSIONER HANSFORD: Sorry, this is a police statement
4	Thank you, Mr Brewster.	4	produced by whom?
5	CHAIRMAN: Thank you very much.	5	MR WILKEN: By a witness for government.
6	Mr Boulding?	6	COMMISSIONER HANSFORD: Thank you.
7	MR BOULDING: I had no questions for this witness, but I'd	7	MR WILKEN: 35016.4, and if you look in the middle of this
8	like to take up an invitation you gave this morning	8	paragraph, you will see there highlighted, "photos of
9	during Mr Brewster's cross-examination by Mr Chow.	9	an area and some documents and photos related to the
10	You will recall that you were taken to or rather the	10	coupler as reference"; do you see that, Mr Brewster?
11	witness was taken to clauses 3(b) and (c) of document	11	A. I do, yes.
12	H3930. It might be an idea to have it up.	12	Q. And the witness here is saying, "I used my personal
13	CHAIRMAN: Yes.	13	phone to take photos", and if we go to the previous
14	MR BOULDING: You will recall that Mr Brewster was read the	14	page, we should see yes, the bottom of the previous
15	beginning of clause 3:	15	page:
16	"A quality supervision plan of the competent person	16	"On 6 June 2018, I acted on my senior's instructions
17	and the RGBC/RSC is required to be submitted to this	17	to go to an MTR temporary office"
18	department prior to the commencement of the mechanical	18	Do you see that?
19	coupler works."	19	A. I see that, yes.
20	And then we spent a little bit of time on (b) and	20	Q. So this document appears to have been taken from a photo
21	(c), and in particular what the words there meant, and	21	at an MTR office?
22	you will see, for example, in (b):	22	A. That would be the same office as ours, yes. It's
23	"Frequency of quality supervision, which should be	23	a combined office.
24	at least 20 per cent of the splicing assemblies by the	24	COMMISSIONER HANSFORD: Sorry, just to understand that
25	quality control supervisor of the competent person"	25	answer. So this is an MTR office but I think I'm
	Page 66		Page 68
1	And Mr Brewster explained that that was MTR.	1	hearing that MTR's and Leighton's office is the same
_	CHAIDMAN V		8
2	CHAIRMAN: Yes.	2	office; is that correct?
3	MR BOULDING: And you expressed a view as to the meaning and	2	
		2	office; is that correct? A. That is, yes. The same floor. MR WILKEN: I think the witness is just getting there on the
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- 1 "MTR has agreed to a request from the government to
- 2 open up locations at (inter alia) locations along the
- diaphragm wall ... The details of the opening up are
- 4 being considered and finalised. The as-constructed
- 5 works will be subject to verification upon opening up."
- 6 A. Yes, I can see that.
- 7 Q. What does that suggest to you?
- 8 A. That in order to satisfy concerns that people may have
- 9 regardless of what we come up with in evidence here,
- that opening up the concrete and seeing the physical
- outcome is going to allay those concerns.
- 12 Q. And what might the process of opening up do to any plan
- that was produced before opening up?
- 14 A. "Plan", sorry?
- 15 Q. You were shown a plan, do you remember that, yesterday?
- 16 A drawing?
- 17 A. A drawing of, sorry?
- 18 Q. We'll go to it. It should be the immediately following
- document. There we go. It is annex A1, please. You
- will see here on the right-hand side --
- 21 A. Oh, that drawing, sorry, yes.
- 22 Q. You remember that?
- 23 A. Yes.
- 24 Q. So you've seen the passage relating to opening up?
- 25 A. Yes.

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- 1 A. Like I said, most jobs these days have got couplers and
- 2 I would anticipate, whether I'd any documents or not,
- 3 that a job of this size in the complexity that it is
- 4 would have thousands of couplers. It's inevitable,
- 5 especially when you've got D-walls. So while I may not
- 6 have had -- I can't recall seeing any documents at the
- 7 beginning, there was bound to be couplers.
- 8 CHAIRMAN: Sorry to interrupt you. I think your answer
- 9 really is encapsulated in, "It's one of those routine
- things"?
- 11 A. It is. In a nutshell, sir, yes.
- 12 MR WILKEN: Finally, on the question of CVs in annex C, can
- 13 you go to H20/39722.
- 14 You will see there it says CV records "are included
- in appendix C", and then if we then go to appendix C
- which should be H20/39998. That's appendix C. And if
- we go to 40008, you will see the CV of Mr Andy Ip?
- 18 A. Yes
- 19 Q. And if you go to 40025, you will see there the CV of
- 20 Joe Leung?
- 21 A. Yes.
- 22 Q. And if you go to 40034 -- the previous page, 33 -- you
- see there the CV of Edward Mok?
- 24 A. I see that, yes.
 - 5 Q. And they are all Leighton employees, aren't they?

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- Q. What might that do in relation to this plan?
- 2 A. Confirm the design amendment drawings submission as
- 3 being jointly prepared, confirm it.
- 4 Q. It will confirm --
- 5 A. Confirm the details that are in that amendment.
- 6 Q. And what will the status of the plan be before that
- 7 confirmation?
- 8 A. It can only be interim until we jointly agree that it is
- 9 a true reflection of what's been built.
- 10 Q. Next topic, please. You were asked some questions this
- 11 morning about yesterday's transcript.
- 12 Can you be taken to that, please, page 94, lines 18
- to 25. This was an answer yesterday:
- "Let's move on to a slightly different topic. In
- respect of couplers used in this project, you were aware
- of the use of couplers, first, in this project, is that
- 17 correct, at the time?
- Answer: At the time I wasn't aware, no.
- 19 Question: At the time you were not aware --
- 20 Answer: It's one of those routine things.
- 21 I wouldn't be told about couplers, no."
- 22 Mr Chow put to you this morning that this was
- equivalent to you saying you didn't know that couplers
- were used. Would you care to expand on your answer in
- 25 light of that question this morning?

- 1 A. They are, yes.
- 2 MR WILKEN: Sir, I have no further questions by way of
- 3 re-examination.
- 4 CHAIRMAN: Thank you.
- 5 Mr Brewster, your evidence is completed. Thank you
- 6 very much for attending. It's been of considerable
- 7 assistance to us, and thank you.
- 8 WITNESS: Thank you.
 - (The witness was released)
- 10 MR WILKEN: The next witness will be Mr Buckland.
- 11 CHAIRMAN: Thank you.
- 12 MR WILKEN: Good morning, Mr Buckland.
- 13 WITNESS: Good morning.
- Good morning, Mr Chairman.
- 15 MR WILKEN: Can you give your full name to the Inquiry,
- 16 please.

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- 17 WITNESS: Brett Charles Buckland.
 - MR BRETT CHARLES BUCKLAND (sworn)
- 19 Examination-in-chief by MR WILKEN
- 20 MR WILKEN: Before we get to your evidence, it's usual with
- 21 Leighton witnesses for the Leighton barrister to show
- where you sit in the organisation, so I'm just going to
- 23 go through that exercise now, if I may.
- 24 If we go to C7/5531, and we need to look on the
- left-hand side, we see you sitting there as the

Page 73 Page 75 1 engineering and risk manager. And if we go to the top A. They are. 2 Q. Is that the evidence you wish to give to the Commission? of that page, we see that is January 2015. 3 3 A. Mm-hmm. 4 Q. If we then go to 5536, you have moved to the right-hand 4 Q. Is there anything you'd like to correct or alter? 5 side of the page, and you are now sitting in the 5 A. Not at this time, no. 6 Q. Is the evidence given in those witness statements true commercial team, that's correct, and you are design 6 7 manager? and correct as far as you're concerned? 8 A. Yes. 8 A. To the best of my knowledge, yes. 9 9 MR WILKEN: Thank you. If you wait there, the man Q. And the date of that is December 2015. 10 10 If we then go to 5537, this is September 2016, immediately to my left will be asking you some 11 you're still on the right-hand side, but you are now questions. There are various other counsel dotted 11 12 design manager Brett Buckland, under "Engineering" and 12 around the room who may be asking you some questions. 13 13 The chairman and professor may also have some questions underneath Justin Taylor? 14 14 A. Yes. for you, and then I may ask you some questions at the 15 15 Q. Then if we go to 5538, end of September 2016, you're end, or I may not. 16 still in the same position and that's the last reference 16 So if you please wait there, thank you. 17 17 Examination by MR CHEUK we have to you in the charts? 18 A. Yes. 18 MR CHEUK: Good morning, Mr Buckland. My name is Calvir Q. Mr Buckland, you have given four witness statements to 19 Cheuk, I'm one of the counsel for the Commission. 19 20 20 I have some questions for you. Thank you for coming to this Inquiry. Can you be shown C27/20800. Do you see 21 that on the screen? 21 assist the Inquiry. 22 A. Yes, I can. 22 Shall we first go to your witness statement, 23 23 Q. Is that the first page of your first witness statement? C27/20800, paragraph 5. Here, you explain between March 24 2013 and 31 May 2015, you were the manager of the design 24 A. It looks like it, yes. 25 engineering team of Leighton for the Hung Hom Station 25 Q. If you can go to 20811, is that your signature? Page 74 Page 76 A. Yes, it is. 1 project; correct? 1 2 Q. And it's dated 9 October 2018? 2 A. Yes. 3 3 A. That's right. Q. Is it correct that in that position you were responsible 4 Q. Can you now go to C32/24020. Is that the front page of 4 for overseeing design matters, including design changes, 5 your second witness statement? 5 on behalf of Leighton? A. Yes. 6 A. Yes. 6 7 Q. If you go to 24030, is that your signature? 7 Q. Then you say in the same paragraph you continued to 8 manage a section of the team until around mid-November A. Yes, it is. 9 2015, and then you were transferred to the commercial 9 Q. And it's dated 18 October 2018? 10 10 team for the project. A. That's right. 11 Q. Then if you go to C35/26548, is that the first page of 11 When you say "a section of the team", who was in 12 your third witness statement? 12 that section? Can you tell us? 13 A. Yes. 13 A. It was still the design team, basically the same people 14 that I was managing before, but I was more focused on 14 Q. And if you go to 26552, is that your signature? 15 the design as opposed to other aspects of the 15 A. Yes, it is. 16 Q. And it's dated the 2nd day of November 2018? 16 engineering team. 17 A. Yes. 17 Q. I see. So essentially there's not much change, when you 18 Q. I'm correct -- I think I misspoke -- I thought I said 18 say you continued to manage a section of the team from 19 you have done four but I think it's three witness 19 31 May 2015 up to November 2015? 20 20 A. Yes. The difference is I had -- there were sections of statements. 21 A. That's right, yes. 21 the engineering team I was no longer responsible for, 22 Q. One gets lost in the iterations of the witness 22 like systems assurance and the risk side of it. 23 23 Q. And when you say "the engineering team", you are statements. 24 Are those the three witness statements you have 24 referring more to the team in relation to site 25 given to the Commission? 25 supervision matters?

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- A. No, no. I'm talking about the design engineering team
- 2 which was responsible for system assurance, risk, BIM.
- 3 We had a CAD team as well, as well the design side. So
- 4 we have design engineering and we have construction
- 5 engineering, so I was responsible for design
- 6 engineering.
- 7 Q. Okay. I take it that you were involved in Leighton's
- 8 design matters from March 2013 all the way up to
- 9 mid-November 2015, and then you were shifted to
- 10 commercial team and will have less involvement
- 11 afterwards?
- 12 A. Yes, but from around end of May to mid-November I was
- 13 also working or reporting to Justin Taylor, chief
- 14 engineer. So I was still dealing with the issues but
- 15 I had help from Justin as well.
- 16 Q. I see. So during that period you and Mr Taylor would
- 17 work together?
- 18 A. Yes.
- 19 Q. In your witness statement, you deal with design changes
- 20 of the connection between EWL slab, the eastern
- 21 diaphragm wall and the OTE slab; correct?
- 22 A. Yes.

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- 23 Q. So can we start with some general questions first,
- 24 because this is quite a technical matter, and most of
 - the people in this hearing room are not in the same

- 1 the east diaphragm wall can be seen -- we see there's
- 2 a letter M on the right-hand side -- basically, we are
- 3 talking about horizontally the whole line of wall close
- 4 to the letter M, all the way between gridline 15 and
- 5 gridline 50?
- 6 A. Yes.

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- 7 Q. That's the area we are focused on in your evidence;
 - correct?
- 9 A. That's correct.
- 10 Q. If we now go to H14, page 32920. You can take it from
 - me that this is a BD-accepted drawing showing the very
- 12 first, original design, back in 2013; okay?
- 13 We can see there's -- can we blow up the table in
 - the top right-hand corner a little bit and look at --
- 15 A. Sorry, can you show the date of the drawing, please?
- 16 Q. Go to the date at the end.?
- 17 A. That's not the original drawing. This is dated
- 18 23 December 2013.
- 19 Q. Yes. Let me clarify. You can take it from me, for our
- 20 purpose, to examine the changes --
- 21 A. Fair enough.
- 22 Q. -- that would be sufficient for our purpose; okay?
- 23 A. (Nodded head).
- 24 Q. If we focus on the table, on this top right-hand corner,
 - we see there's a table showing the connection detail for

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- profession; we might take it slowly so that everyone can
- 2 understand the significance of your evidence.
- 3 Can we start with A1/250. This is the general
- 4 layout plan for the whole project; correct?
- 5 A. Yes. Not the whole project, just the station part of
- 6 the project.
- 7 Q. Yes, of course, the station of the project. When we are
- 8 talking about design changes here, we are actually
- 9 focusing on the diaphragm wall, east diaphragm wall,
- 10 located between gridline 15 to gridline 50.
- 11 A. Mm-hmm.
- 12 Q. So if we can go to gridline 15 first -- can we shift
- 13 a little bit -- on the left-hand side we can see
- 14 gridline 15; is that right?
- 15 A. Yes.
- Q. That's more or less the starting point of area B? 16
- 17 A. That's right, yes.
- 18 Q. Then if we can move the screen slightly to the
- 19 right-hand side -- yes -- until 50, we see -- on the
- right-hand side, we see the gridline 50? 20
- 21 A. (Nodded head).
- 22 Q. That's all the way up to what we call NAT, the North
- 23 Approach Tunnel?
- 24 A. Yes.
- Q. So we are concerned with the east diaphragm wall, and 25

- diaphragm wall, and then we see first of all area B --
- 2 can we even blow up that part a little bit more -- we
- 3 see area B and then panel number, EH40 to EH46, that's
- 4 detail D; do you see that? Then area B, EH47 to EH55,
- 5 then that will have the connection detail E, E1.
 - Then similarly, down to area C -- we are not
- 7 concerned with WH -- WH is the western panel, that's why
- I jump to below -- area C, we see the third-last row, we 8
- 9 see area C, EH55 [56] to EH115, we see again the
- 10 "Detail-E"; do you see that?
- 11 So that, sir, detail we are concerned with the whole
- 12 line of eastern panels.
- 13 If we go back to the whole drawing, from the table
- 14 we see -- we don't need to go through each drawing in
- 15 detail, but I think you can agree the most common form
- 16 of detail, connection detail, is actually detail E.
- 17 A. Mm-hmm.
- 18 Q. If we can look at detail E, which we can find
- 19 immediately below the two tables on the right-hand side,
- 20 that's the detail E which is the most common form of
- 21 construction detail as approved by the BD.
- 22 Can you help us here and correct me if I've got
- 23 anything wrong here. First of all, from the left-hand
- 24 side, we see the EWL slab; that's correct?
- A. Correct.

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- Q. And we see there's a dimension saying "3000", that's
- 2 3,000 millimetres?
- 3 A. Yes.
- 4 O. Which means 3 metres deep. That's the slab.
- 5 Then we move to the middle part, that's the D-wall
- 6 we are concerned with.
- 7 A. (Nodded head).
- O. Then we move to the right-hand side of the middle part.
- 9 That's what we call the OTE.
- 10 A. Yes, that's right.
- 11 O. Over --
- 12 A. Over-track exhaust.
- 13 Q. Yes. So essentially it consists of three parts. Then
- 14 if we look at the rebar arrangement here, the first row,
- 15 if you look at from the slab, we see two rows of rebar
- 16 at the top section, going from the EWL slab into the
- 17 diaphragm wall. We can see that.
- 18 A. Yes.
- 19 Q. And T40 means it's diameter 40 millimetres.
- 20 A. Yes.
- 21 Q. Then there's one row of rebar at the top, going from the
- 22 diaphragm wall into the OTE; can we see that?
- 23 A. Yes.

25

- 24 Q. If we look at the two rows of rebar going from the slab
 - into the OTE, what we see is that they, after going

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- inside, into the diaphragm wall, they bend downward --1
- 2 A. Yes.
- 3 Q. -- to what we call provide anchorage?
- 4 A. That's right, yes.
- MR SHIEH: (Whispered comment).
- 6 MR CHEUK: Did I say "OTE"? I said "OTE". I apologise.
- 7 A. I thought you meant OTE -- they have bars from both
- 8 sides doing the same thing.
- 9 Q. I apologise. I made a mistake. That's why I made the
- 10 caveat at the beginning that this is getting technical
- 11 and I'm certainly not an engineer.
- 12 Let's try again. I think Mr Shieh is absolutely
- 13 correct that two layers of rebar going from the slab,
- 14 going into the diaphragm wall and then bend downwards --
- 15 A. Yes.

19

- 16 Q. -- we see the downward bend there, to provide what we 17 call anchorage.
- 18 Can you explain in simple terms the function of anchorage, as we are not engineers?
- 20 A. Well, you see a certain length of rebar into the
- 21 concrete so that it can form a bond with the concrete,
- 22 like the higher -- the larger the size of bar, then the
- 23 longer that you need to anchor, because those bars take
- 24 a greater load, so you need to develop a longer length
- 25 to get the required bond stress.

- 1 Q. Yes. Can I try my best to explain in my understanding,
- 2 and please do correct me if I'm wrong. This anchorage
- 3 is sort of like to make the joint between the slab and
- 4 the diaphragm wall more rigid and to prevent any sort of
- 5 rotation between the two parts of the concrete
- 6 structure; does that --
- 7 A. It's not so much that. If you don't have that bond
- 8 stress, then it will be insufficiently held in place, so
- 9 it could actually pull loose if it doesn't have the
- 10 required anchorage.
- Q. Yes. But I think you -- would you agree with me one of 11
- 12 the main functions of this anchorage is to make the
- 13 joint more rigid, stronger?
- 14 A. Well, yes, but it's not just to make it more rigid.
- 15 It's a requirement.
- 16 Q. Yes.
- 17 A. It's not sufficient without the required anchorage.
- 18 Q. Yes. Also, the two rows of rebars going into the
- 19 diaphragm wall were intended to be spaced out uniformly?
- 20 A. Yes, that's right.
- 21 Q. We also see the existence of what we call U-bars.
- 22 That's the bar going from -- forming a U-shape, going
- 23 from the left-hand side of the diaphragm wall, all the
- 24 way to the top, and then it goes horizontal at the top
 - and then goes downward again.
- A. Mm-hmm.
- Q. That's what we call the U-bar; is that correct?
- 3 A. That's right, yes.
- 4 Q. And the U-bar, what we can see, it specifies there's
- 5 T40-150 U-bars", and we can see actually there's an
 - annotation next to the hatched area?
- 7 A. Yes.

- 8 Q. T40 again means the diameter is 40 millimetres. 150
- 9 means they should be spaced out at 150 millimetre space?
- 10 A. Yes.
- 11 Q. Again, can you explain to the best you can, in simple
- 12 terms, the function of U-bars in the structure?
- 13 A. Well, in this instance, the U-bar is to -- I believe
- 14 it's to connect the vertical bars from one side of the
- 15 D-wall to the other side of the D-wall, to provide
- 16
- 17 Q. Okay. Thank you. So that we have seen -- and of course
- 18 we can also see couplers -- the two rows of rebars going
- 19 into the D-wall are connected by couplers?
- 20 A. (Nodded head).
- 21 Q. And then also there's one coupler connecting the rebars
- 22 inside the D-wall to the OTE slab, one at the top
- 23 section and the one at the lower section of the OTE?
- 24 A. Yes.
 - Q. That's the original BD's approved design, at least to

Page 85 Page 87 the date we have just seen; okay? That's an original 1 1 Q. So, as I understand it, during construction the tremie 2 design. 2 pipe's function is to pump concrete --3 COMMISSIONER HANSFORD: Can I just get a little bit of 3 A. Yes. 4 clarification. 4 Q. -- to build the diaphragm wall. So, if you have 5 MR CHEUK: Yes. 5 something according to the original design, which is 6 COMMISSIONER HANSFORD: So, Mr Buckland, you spoke about the 6 uniformly spaced at 150, then the tremie pipe would have U-bar providing continuity between reinforcement on one no space and the diaphragm wall could not be built? 8 side of the diaphragm wall and the other side of the 8 A. That's correct. 9 diaphragm wall. 9 Q. That's why this -- what we can see is a different A. Well, I think its intention was to ensure proper 10 re-arrangement of the rebars, and instead of two rows, 11 anchorage of the vertical bars. because you cannot reduce the number of rebars, you move 11 12 COMMISSIONER HANSFORD: Ah. Okay. That makes more sense to 12 some of the rebars originally at the location of the 13 me. My next question was going to be: what is that 13 tremie pipe to a separate row? 14 continuity for? 14 A. Yes. 15 A. Yes. To be honest, I'm not entirely familiar with the 15 Q. And that's why you have three rows? 16 purpose of the U-bar itself, but that's what I believe 16 A. Mm-hmm. 17 it's for, it's for the anchorage, like a mutual 17 Q. If we shift the diagram to the right-hand side, and look 18 anchorage between the two sides. 18 at section 4. this is a cross-section -- instead of 19 COMMISSIONER HANSFORD: Okay. That makes sense. Thank you. 19 looking at the diaphragm wall frontally, we are trying 20 MR CHEUK: Okay. Let's move on. If we compare this BD 20 to cut through a section to look at it longitudinally --21 accepted drawing with the as-built situation signed off 21 A. Mm-hmm. 22 by MTRC, Leighton and Intrafor -- let's go to F1/789. 22 O. -- and see what's built there in this section. 23 You can take it from me that this is the contemporaneous 23 Again, we can see, in this section, on the 24 records provided by Intrafor, showing what they built at 24 right-hand side is the slab, which is around 3 metres 25 the time; okay? 25 deep. But what we can see here, at the top part --Page 86 Page 88 A. (Nodded head). again, we see three rows of rebars; okay? 1 1 2 Q. If we turn to the next page, 790 -- yes, this page -- if 2 A. (Nodded head). 3 3 we blow it up a little bit, and if we look at, for Q. And no U-bars were used.

- 4 example, the top right-hand corner -- the top left
- 5 corner, what we can see is the front elevation of
- 6 a panel which is concerned with -- what we are here is
- 7 concerned with EH98. You can take from me it's
- 8 concerned with EH98.
- 9 A. Yes.
- 10 Q. The detail A here we are concerned with, when we look
- 11 directly to the front of this panel; is that correct?
- 12 A. Yes.
- 13 Q. There's a tube, a circular, cylindrical drawing in the
- 14 middle; we can see that. That's what we call the tremie
- 15 pipe.
- 16 A. Yes.
- 17 Q. And we can see that the top section, if we can go to the
- 18 top section, this part, we can see three rows of rebars
- 19 going through the top part of the panel, but they were
- 20 deliberately arranged to avoid the location of the
- 21 tremie pipe --
- 22 A. Correct.
- 23 Q. -- so as to provide space for the insertion of tremie
- 24 pipe.
- 25 A. Yes.

- That's, in summary, the most critical difference
- 5 between the originally accepted drawing and what was
 - built by Intrafor at the time; is that correct?
- 7 A. Yes, and also the L-shaped bars.
- 8 Q. Yes, the lack of anchorage. You are absolutely correct.
- 9 The rows of rebars, instead of bending down to provide
- 10 anchorage, they go straight through, from one side of
- 11 the diaphragm wall to the other side. That's something
- 12 we will go through, in the chronology of the events.
- 13 A. Mm-hmm.

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- 14 Q. Let's call this what I call the "first change", for
- 15 convenience purpose --
- 16 A. Mm-hmm.
- Q. -- ie the change between the BD accepted drawings and 17
 - Intrafor's as-built situation; okay?
- 19 But we know that this was not what was finally
- 20 constructed in the project. There were some other
- 21 changes, after Intrafor's as-built condition. I will
- 22 just call it, for convenience purpose, "second change".
- 23 According to you, if we go back to your witness
- 24 statement, C27/20807, paragraph 27, you very helpfully
- 25 explain to us in summary what was involved in the second

Page 89 Page 91 give it a good -- a nice finish at the end of the panel, 1 change. 1 2 2 Essentially, the second change involves, first of something that can be easily connected to, with a flush 3 all, the top of the diaphragm wall being trimmed down 3 ioint. 4 4 for about 420 millimetres, and continuous rebars instead MR CHEUK: Thank you, Professor. 5 5 of couplers would be used to connect the EWL slab, the But can I just clarify with you one point. In 6 eastern diaphragm wall and the OTE slab. And the third 6 paragraph 23 here, on the screen, from the third line 7 element of what I call the second change is that the EWL 7 you said: 8 8 slab, the top part of the diaphragm wall and the OTE "This is what happened in relation to the Change." 9 slab would be concreted monolithically, ie in one go. 9 And the "Change" was capitalised. And if you go to A. Yes. 10 10 paragraph 7, that's at page 20801, you actually define 11 Q. We will come across this word "monolithically" very more the word "Change" here, which was concerned with change 11 12 often if we go to subsequent chronology, and that will 12 from couplers to through-bars. That's more in relation 13 raise some issues, as you have explained in your witness 13 to what I call the second change. 14 statement; right? 14 A. Yes. 15 A. (Nodded head). 15 Q. So if we go back to your paragraph 23, at 20806, it 16 Q. So it is these two changes that I wish to discuss --16 seems to me that this "Change", the word, should not be 17 CHAIRMAN: Sorry, does "monolithically" mean in one go or ir 17 capitalised, and you are generally referring to the 18 one piece? I've got it --18 first change instead of the second change. Do 19 A. Both. 19 I understand the context of your paragraph 23 correctly? 20 CHAIRMAN: I thought "monolithic" meant you pour it, even if 20 You are here referring to the reason for the first 21 you pour it in several goes, which you wouldn't want to, 21 change instead of the "Change". 22 I appreciate that, but it's all just to end up with one 22 A. Yes, I think it's the first change. 23 block? That's the better term. Thank you. 23 Q. Now let's go to what happened after the first change. 24 MR CHEUK: Yes, I think that's my understanding. 24 If we can go to H10/4840. You can take it from me, this 25 CHAIRMAN: That's the understanding. Good. Thank you. 25 is a letter on 27 January 2015 from the MTRC to the BD, Page 90 Page 92 MR CHEUK: So if we first go to the first change details, if 1 seeking BD's approval of the certificate of completion, 2 2 we go to your witness statement, C27/20806, record plans and associated submissions for the first 3 paragraphs 23 to 24 -- basically, you here explain the 3 batch of diaphragm walls at areas A and C? 4 reasons why there was the first change, and in short --4 A. Yes. 5 I have already gone through with you some of the 5 Q. Were you aware of this letter at the time? 6 details -- these changes were necessitated by the need 6 A. Yes. 7 to accommodate the tremie pipe during the construction 7 Q. Then similarly, we go to 4906. On 4 February 2015, we 8 process, and therefore the original layout of the rebars 8 see this is a letter, MTRC is seeking BD's approval 9 9 were re-arranged. That's primarily the reason for the of certificate of completion, record plans and 10 first change; is that correct? 10 associated submissions for the second batch of diaphragm 11 A. There's also the stop-ends. The stop-ends were about walls at area -- what we call HKC, Hong Kong Coliseum. 11 12 400 millimetres wide, at either end of the wall panels. 12 A. Yes. 13 Some had one in there and some had two. There was 13 Q. If we turn to 4935, this is again a letter by MTRC to 14 primary, secondary and tertiary or final panels, and the 14 seek BD's approval of certificate of completion, record 15 primary panels would generally have two stop-ends in, so 15 plans, et cetera, for the diaphragm walls at areas SAT, 16 that would take out 400 millimetres at each end of the area A and area C; is that correct? 16 17 panel as well. I don't think I've mentioned that in --17 A. Yes. 18 COMMISSIONER HANSFORD: I think, Mr Buckland, there aren' Q. In summary what happened is this: at the beginning of 18 19 many people in this room that know what a stop-end is, 19 2015, some of the diaphragm walls were completed, so 20 so it might be helpful if you just explain that. 20 MTRC is seeking the approval of a certificate of 21 A. Okay. Well, it's a way of -- it's put in at the end of 21 completion from the BD in batches, and what we have just 22 22 a trench, when trenching to form a D-wall, so that you shown you is batch 1 to batch 3 applications. 23 come to do the next panel along, you pull the stop-end 23 A. Yes. 24 out so you can then cast against the completed end of 24 Q. Now if we go to H11/5517, you can see this is a record

of meeting between MTRC, Atkins and the BD on 14 April

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the first panel that's been cast. It's basically to

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- 1 2015, ie after the three batch submissions.
- 2 You can see the time was 3 pm to 3.45 pm, and the
- 3 agenda was to discuss D-wall reinforcement details at
- 4 connection, and MTRC was attended by Mr Andy Leung,
- 5 Kevin Yip and Victor Li, and DDC, that's detailed design
- 6 consultant, ie Atkins?
- 7 A. Correct.
- 8 Q. CK Chan, WC Lee and David Wilson. Then there are
- 9 representatives from the RDO, Railway Development
- 10 Office, and BD team.
- 11 Were you aware of the meeting at the time?
- 12 A. I'm not aware of this particular meeting, no.
- 13 Q. Okay. Then if we go to 5520, same bundle, you can take
- 14 it from me that this is an internal note of the BD.
- 15 What it records --
- 16 A. It's internal note of BD, but sent to who?
- Q. It was circulated first within the BD but probably it 17
- 18 has been also sent to other parties subsequently, but
- 19 originally --

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- 20 A. To MTR or where?
- 21 Q. Yes. But you were aware of this note at the time?
- 22 A. I don't recognise it.
- 23 Q. But what we can see from paragraph 2 is that it records
- 24 some points of what was discussed during that meeting,
 - 14 April 2015, and what it says is that:

- A. Well, what do they include by "covered up"?
- 2 Q. No, the timing, the August 2013 refers to the beginning
- 3 of Intrafor's work.
- 4 A. Yes, that's right.
- 5 Q. And:

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- 6 "-- Structural safety and serviceability concern to
- 7 existing station structures and future station."
 - We see the third bullet point there. And:
 - "-- Potential programme impact if remedial works
- 10 required."
- 11 So, in summary, we can see you don't necessarily
- 12 agree with BD, but there's a big concern after the
- 13 meeting on 14 April 2015; correct? And were you aware
- 14 of this concern at the time?
- 15 A. Yes. Sorry, I was only aware of the concern about the
- 16 differing details but I don't agree with that second
- 17 point of covering up anything. That's not true.
- 18 Q. Yes. I understand your position. You don't accept the 19 criticism here, but you were aware of their concern at
- 20 the time?
- 21 A. Yes, because we had a change in detail and we were
- 22 taking actions to get it approved.
- 23 MR CHEUK: Chairman and Professor, I have two questions and
- 24 then I will go to them separately. I am aware of the
 - time but if you can allow me.

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CHAIRMAN: Yes, please continue with your two questions.

- 2 MR CHEUK: On H10/5130 this is BD's letter in response to
- 3 the three batch applications for certificate of
- 4 completion given to MTRC.
- 5 If we pull down, we can see paragraph 3:
- 6 "In the meeting with your representative on 14 April
- 7 2015, it is noted that the reinforcement details at the
- 8 top of some eastern diaphragm walls (along gridline M)
- 9 have been constructed not in accordance with the
- 10 accepted proposal. In this connection, you are required
- 11 to review and clarify if any of the said modified
- 12 diaphragm walls are included in the captioned batch of
- 13 as-built diaphragm wall submission."
- 14 Do you see that?
- 15 A. Mm-hmm.
- Q. Were you also aware of this letter at the time? 16
- A. Can you just scroll to the top of the letter again? 17
- 18 Q. Yes, please. Can the witness be shown the top of the 19 letter.
- 20 It's not addressed to Leighton, it's addressed to
- 21 the CP, of course of MTRC.
- 22 A. I may have seen it, I probably did, but I can't remember
- 23 for sure if I did.
- 24 Q. But you were aware of rejection by BD of the application
- 25 for certificate of completion in relation to the three

"D-wall construction deviated from accepted proposal

- 1 2 without prior design acceptance. Notified BO team on
- 3 14 April 2015."
- 4 Then bullet point 1:
- 5 "-- Critical moment connection for 27 ... span new
- 6 roof slab supporting existing/future station structure."
- 7 Can you tell us, to your knowledge, what does that
- 8 refer to, "27 ... span new roof slab"?
- 9 A. That sounds like the EWL slab.
- 10 Q. Yes, that's my understanding too. Because it's on the
- 11 top of the NSL, that's why it's referred to as the roof
- 12 slab; correct? That's your understanding?
- 13 A. It sounds a bit long though, because I thought it was
- 14 21 metres.
- 15 Q. Okay. We probably don't need to quibble the length, but
- I think we can understand and agree the roof slab was 16
- 17 referring to the EWL; correct?
- 18 A. Yes.
- 19 Q. Then the second bullet point:
- 20 "-- Covered up the major revision of ongoing
- 21 foundation works for 2 years (since August 2013)."
- 22 Ie the beginning of Intrafor's -- the D-wall time.
- 23 Do you agree with that?
- 24 A. Do I agree with that statement?
- Q. Yes, the August 2013 --

Page 97 Page 99 1 batches that we have seen at the time? 1 Hong Kong --2 2 A. Yes. A. Yes, around sea level. 3 Q. Do I understand correctly that consequently, if we are 3 Q. Yes, and that's the mark of 0mPD, and every level in 4 talking about the time as of 21 May 2015, MTRC, Leighton 4 Hong Kong will measure against that mark. 5 and Atkins needed to deal with this issue, ie they 5 A. Yes. 6 needed to properly incorporate and justify the first 6 Q. And, if you are below that, then you are in a negative, 7 change to the BD before they could get the approval of 7 and if you are above that you are in the region of 8 certificate of completion and record plans at the time; 8 positive? 9 correct? Q A. Correct. 10 A. Yes. 10 Q. Now let's look at this diagram, B229. You can take it 11 MR CHEUK: Chairman and Professor, I have finished my two 11 from me it's been produced by Mr Aidan Rooney of MTRC, questions. I think this might be an appropriate time. 12 12 for the illustration of the section of the Hung Hom 13 CHAIRMAN: That's fine. Thank you. It's an hour or an hour 13 Station. 14 and 15 minutes. Make it 2.15. Thank you. 14 I think it might help us to understand where this 15 (1.05 pm)15 negative 0mPD comes from, that's why I hope you can 16 (The luncheon adjournment) 16 assist us to look at this diagram. Okay? 17 (2.20 pm) 17 A. Okay. 18 MR CHEUK: Mr Buckland, you will recall that before the 18 O. If we look at this diagram, it shows, of course, the 19 lunch break we were talking about the situation as of 19 cross-section of the Hung Hom Station; right? 20 21 May 2015, when BD just rejected the first batch to 20 A. Yes. 21 the third batch application for a certificate of 21 Q. The green part is the EWL slab; right? 22 completion in relation to the D-walls. You remember 22 23 23 that? Q. And the red part is the NSL slab? 24 A. Yes. 24 A. Correct. Q. Now let's carry on with what happened around that time; 25 Q. And the orange part is the two diaphragm walls? Page 98 Page 100 1 okay? Is it correct that at around a similar time, A. Yes. 1 2 during the early part of 2015, since some of the 2 Q. If we look at the left-hand side, there's a hatched 3 diaphragm walls were already completed, the next stage 3 part, horizontal line, which says plus 4.33 -- can we go 4 would be for Leighton to carry out excavation works, 4 to the left-hand side, in the middle, and blow that up 5 first down to negative 0.5mPD? 5 a little bit -- on the left-hand side, can we see that 6 A. Yes. 6 it says "plus 4.33 approximately existing ground level", 7 O. And then below. 7 and with an inverted triangle and some hatched lines? 8 COMMISSIONER HANSFORD: I think Mr Buckland needs to be told 8 9 9 to say "yes" because then it goes on to the transcript, Q. That's the level, plus 4.33mPD, of the existing ground 10 rather than nodding his head. 10 level; correct? 11 MR CHEUK: Yes. You might need to speak up a little bit so 11 A. Yes. 12 that your voice and what you say can be captured on the 12 Q. So from here we know that the existing ground level 13 13 transcript. around Hung Hom Station is approximately plus 4.33mPD; A. Okay. 14 14 right? 15 Q. Now if you can go to B1/229. 15 A. Yes. 16 CHAIRMAN: Do I have to know what negative 0.0mPD is? 16 Q. So, in order to build this Hung Hom Station, if we look 17 MR CHEUK: Yes. I'm coming to that. 17 below the 4.33mPD, we see the bottom level of the green 18 CHAIRMAN: Good. Thank you. 18 slab, ie the EWL slab, we see the level is negative 19 MR CHEUK: B1/229. Bundle B1, page 229. Yes, that's the 19 0.18mPD; is that right? 20 20 A. Yes. 21 Before we look into this diagram, can you explain to 21 Q. So, talking about the building procedure of this 22 us what's the meaning of "mPD" first? 22 station, after the orange part of the diaphragm wall is 23 23 A. Metres post-datum. completed, what Leighton needs to do is to carry out Q. Yes. Essentially, as I understand, there is some mark 24 24 excavation work from the ground level, ie plus 4.33mPD, 25 in Hong Kong which is fixed at certain points in 25 and go down, excavate down to somewhere around negative

- 1 0.5mPD; is that correct?
- 2 A. Correct.
- 3 Q. And why it's 0.5mPD is because it's slightly below the
- 4 0.18mPD, ie the bottom level of EWL slab; correct?
- 5 A. Yes.
- 6 Q. So that the workers of Leighton can start to carry out
- 7 the bending rebar/re-fixing work, et cetera. That's the
- 8 first level to provide the working environment for
- 9 Leighton workers; is that correct?
- 10 A. Yes.
- 11 Q. And afterwards, after you excavate to 0.5mPD, what
- Leighton workers will do is to connect the rebars and 12
- 13 pour the slab for the EWL slab?
- 14 A. In simple terms, yes.
- 15 Q. Then the green part of the EWL slab will connect with
- 16 the diaphragm wall; that was the intended procedure?
- 17 A. Correct.
- 18 Q. After this part is completed, then Leighton would carry
- 19 on further excavation, down to the level of the NSL
- 20 slab?
- 21 A. No.

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- 22 Q. Can you tell me what should happen afterwards?
- 23 A. We first have to install diagonal struts, roughly about
- 24 halfway down, between the NSL slab and the EWL slab, to
 - support the walls before further excavation.

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- 2 correct?
- 3 A. Yes.

1

4 Q. Also, the green part, the EWL slab, actually, after

retaining wall against the pressure from both sides;

- 5 their completion, they also serve a very important
- function as struts? 6
- 7 A. Yes.
- 8 Q. To facilitate the whole excavation process?
- 9 A. That's right.
- 10 Q. So, while you can set up what you call some diagonal
- struts between the green slab and the red slab, which 11
- 12 are temporary and will be removed once the station is
- 13 constructed, the green slab serves two functions. One,
- 14 in the process of excavation it serves as a strut to
- 15 facilitate the excavation work?
- 16 A. Yes.
- 17 Q. Two, it also serves part of the permanent works;
- 18 correct?
- 19 A. Correct.
- 20 Q. Now we can put away this diagram. If we go to J1,
- 21 page 92 -- in order to carry out excavation works, as
- 22 a matter of procedure, Leighton or MTRC would need to
- 23 obtain consent from BD to commence excavation works; is
- 24 that correct?
- 25 A. No.

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Q. Can you explain a little bit what is required before --

- A. My understanding of the consultation process is that
- 3 consent and approval is not required. What's required
- 4 is consultation, and then acceptance of the submission.
- 5 Q. Yes. But before -- after the acceptance of plans,
- 6 before the actual commencement of the excavation works,
- 7 do you need some agreement from the BD?
- 8 A. Yes.
- 9 Q. Let's call it -- to avoid the different language adopted
- 10 in the Buildings Ordinance and the IoE, let's call it
- 11 BD's agreement instead of consent; okay?
- 12 A. Okay.
- 13 Q. But you do need some form of agreement from the BD
- 14 before you can commence the actual excavation work?
- 15 A. (Nodded head).
- Q. Okay. In order to obtain such BD's agreement, what 16
- 17 Leighton or MTRC would do is to submit some report to
- 18 the BD, to justify that it is safe to carry out the
- 19 excavation works; is this right?
- 20 A. Yes.
- 21 Q. And usually it would be in the form of a design report
- 22 or what you guys call temporary works report, and submit
 - it to the BD in order to obtain such agreement; is that
- 24 correct?
- A. Correct.

O. I see. Yes.

- 2 So before you excavate down to the red part of the
- 3 slab, between the green part and the red part you need
- 4 to establish, set up, some horizontal struts?
- 5 A. They are actually diagonal in this case.
- 6 Q. Diagonal, yes. The purpose of this is to provide
- 7 support to the diaphragm walls --
- 8
- 9 Q. -- which act as retaining walls against the pressure of
- 10 both sides of the soil?
- 11 A. Yes.
- 12 Q. To prevent the collapse of the two diaphragm walls?
- 13 A. Yes.
- 14 Q. So that the workers can safely excavate below?
- A. Correct. 15
- 16 Q. And the workers, after the set-up of these diagonal
- 17 struts, they can carry on to excavate down below to
- 18 somewhere slightly below the red slab, and then repeat
- 19 the reinforcement works and the construction of the red
- 20 slab?
- 21 A. Yes.
- 22 Q. This is what Leighton call the top-down approach?
- 23 A. Yes. That's a standard term.
- 24 Q. In this excavation process, as you have just told us,
- 25 the two orange parts of the diaphragm wall would act as

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- Q. What we can find here, in this page, is one of the
- 2 temporary works design reports called TWD-004B2, and
- 3 this is one of -- this is the report prepared by Atkins
- 4 team B, on the instruction of Leighton; correct?
- 5 A. Yes. I would call it Leightons/Atkins team.
- 6 Q. Okay. We don't have any implication in terms of calling
- 7 it team A or team B, but that sort of phrase is used in
- 8 the witness statement, so I might use it from time to
- 9 time but it doesn't carry any connotation or specific
- 10 implication.
- A. That's fair enough. 11
- Q. Forgive me if I use "team A" or "team B". 12
- A. Mm-hmm. 13
- Q. We can see the date of this report is May 2015, ie it's 14
- 15 roughly around the time you received the rejection from
- 16 BD, of the three batches.
- A. Oh, okay. 17
- 18 Q. We are talking about roughly the same time; okay?
- 19 If we turn to page 94, we can see -- actually, the
- 20 first issue was issued back in December 2014; do you see
- 21 that?
- 22 A. Yes.

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- 23 Q. And the second issue, A2, then prepared in February
- 24 2015, and the third issue, revision B1, March 2015, and
- 25 the fourth issue, B2, which is this report, was prepared

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- 2 COMMISSIONER HANSFORD: Can I just be clear, are these
- 3 Atkins' names here?
- 4 MR CHEUK: They are.
- COMMISSIONER HANSFORD: Thank you.

in around May 2015; you can see that?

- MR CHEUK: But I can confirm with the witness. 6
- 7 A. They are, yes.
- COMMISSIONER HANSFORD: Thank you.
- MR CHEUK: So this report was prepared by team B on the 9
- 10 instructions of Leighton and various issues were
- 11 prepared from December to May, December 2014 to May
- 12 2015; correct?
- 13 A. Correct.
- 14 Q. Then if we turn to bundle J4, page 3351 -- you can take
- 15 it from me that this is the witness statement of
- 16 Mr McCrae of Atkins team A and team B; okay?
- 17 A. Yes.
- 18 Q. If you look at paragraph 51, what he tells us is that:
- 19 "On 14 May 2015 ... at 19:52, team B provided
- 20 a draft report to Leighton TWD-004B2."
- 21 That's the report we have just seen; correct?
- 22
- 23 Q. It's provided to Leighton on 14 May 2015, okay,
- 24 according to Mr McCrae.
- 25 If we turn to bundle C16, page 10846, at the bottom

- 1 we see an email from Edward Tse of Atkins to Philip
- 2 Daynes, McCrae, et cetera, and you were copied in; do
- 3 you see that?
- 4 A. Yes, I can see that.
- 5 Q. According to Mr McCrae, that's the email by which they sent the TWD-B4 report to Leighton. 6
- 7 A. Mm-hmm.
- 8 Q. Did you read the report at the time?
- 9 A. I'm sure I probably did but I can't remember exactly if
- 10 I read it in detail. It could have been read by my
 - design manager.
- Q. Yes, certainly it will not be a test of memory to you. 12
- 13 If we go back to J1/106, paragraph 1.3.5, it says:
 - "Secondary measures of provision of additional rebar
- 15 at mid-span due to missing U-bar in diaphragm wall."
- 16 Okay? This missing U-bar in diaphragm wall is the
- 17 issue that was raised by BD because of the first change;
- 18 correct?

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- 19 A. Correct.
- 20 Q. "In order to maintain the fixed end design for the
- 21 D-wall along gridline K and the 3 metre EWL slab
- 22 assumption, the OTE is to be concreted with EWL slab
- 23 concurrently to achieve the full tension lap for slab
- 24 rebars. The section is shown [in] figure 1-4 below."
 - If I may read on and then I will ask you some
 - Page 108

questions; okay?

- 2 COMMISSIONER HANSFORD: Will we be taken to figure 1-4?
- 3 MR CHEUK: Yes, certainly. We will go into that in some
- 4
- 5 COMMISSIONER HANSFORD: Thank you.
- 6 MR CHEUK: Another paragraph following that:
- 7 "As a secondary measures, an additional 50 per cent
- 8 of hogging moment will be redistributed to sagging
- 9 moment at the mid-span of the EWL slab, and the
- 10 associated rebar will be enhanced with affecting the end
- 11 rebar. It is assumed that the moments are to be
- 12 distributed between the D-wall/slab accordingly to their
- 13 stiffness to ensure that no overstress [of] D-wall due
- 14 [to] excessive moment from the much stiffer 3 metre EWL
- 15 slab. The design checking of moment redistribution for
- 16 the EWL slab is presented in appendix G5a."
- 17 First of all, I can tell you I have no idea what
- 18 this says, but what I can try to confirm with you is
- 19 that what in gist, in layman terms, it is about --
- 20 I wonder if you can assist me -- first of all, this, as
- 21 we have talked about, at the time in May 2015, there was
- 22 an issue about the first change raised by BD. There was
- 23 a concern of BD at the time; correct?
- 24 A. Correct.
 - Q. And this paragraph is actually the remedial proposal,

24

25

I have read, I do not find, apart from this version 4B,

the previous version of this temporary design report --

Page 109 Page 111 1 proposed by Atkins team B, to address BD's concern at 1 are you saying that actually this proposal actually 2 2 the time; correct? arose even in the first version of this report, that is 3 A. Correct, but I understood that the additional rebar in 3 back in December 2014? 4 the slab was an additional safety measure, it was not 4 A. No. No. 5 actually required, but I know that MTR's Andy Leung had 5 Q. So when this proposal first appeared? 6 a concern, or it may have been BD had a concern, about A. Basically it happened when we submitted the as-built 6 7 the building over the top, the Fosters building above 7 drawings. So we developed the as-built drawings around 8 8 the Hung Hom Station, and the deflection of those the end of 2014 and then made the first submission in 9 9 columns. So they thought it prudent but to put in January 2015, and around that time we realised that 10 additional bars in the mid-slab. But it was shown not 10 although we had been told back in 2013 that U-bars were 11 to be required because sufficient anchorage was 11 not required, we realised that it hadn't actually 12 12 calculated in the walls without the U-bar. been -- like the calculations hadn't been done to 13 Q. Mr Buckland, certainly I understand your position, which 13 justify it yet. So it was when we submitted the 14 essentially what you just told us is the additional 14 as-built drawings, we identified that, and started 15 rebar at the mid-span is just a precautionary measure, 15 working with Atkins to remedy it. But this wouldn't 16 not really remedial in the strict sense? 16 have gone into the report straightaway, because I had A. That's what I understood, yes. Well, no, it's part of 17 17 discussions with the Atkins designers on how to address 18 the remedial, but it was additional measure as part of 18 it first, and then they were going to the BD with MTR 19 19 the remedial. and discussing it. 20 20 Q. What I'm really concerned with is this proposal, whether Q. So if we go back to 94, we see the different version 21 you call it remedial or not, is really linked to BD's 21 dates of this report. When do you say it first 22 concern raised in relation to the first change at the 22 appeared? Is it in A1, A2, B1 or B2 version? 23 23 time. It appears here because of BD's concern raised at A. B2 is the first time it went into the report, I believe, 24 24 the time; correct? because --25 A. Yeah, but I'd like to clarify that it's not just BD that 25 Q. That's what I understand. Page 112 Page 110 1 were concerned. We had already identified this a couple A. Sorry, this report is for the excavation and slab. 2 of months earlier ourselves, and we knew it was Q. I know. That's why I asked you to explain the process 3 3 first. But I just confirm with you that the proposal a concern already, and Atkins had already been working 4 on the possible remedials. 4 itself actually only first appeared in this B2 version 5 Q. Yes, certainly. report? 6 A. Yes. 6 COMMISSIONER HANSFORD: Sorry, just to understand that. So 7 the additional measure was put in not as a requirement COMMISSIONER HANSFORD: Can I also ask, the yellow 8 of BD but because of something that had already been 8 highlighting that we see, is that significant? 9 9 MR CHEUK: No. My understanding is it's done identified; is that your evidence? 10 A. Well, it's kind of in parallel because we -- the 10 retrospectively -- we have used the word quite often 11 identification of the missing U-bars was already known 11 now -- by those parties producing these documents, not 12 a long time ago, but when the BD got the drawings there 12 contemporaneous highlighting. 13 13 COMMISSIONER HANSFORD: So the original report did not have was some -- there was a mistake in producing the 14 as-built drawings so that they initially showed the 14 the highlighting? 15 U-bar, which didn't match the drawings that were being 15 MR CHEUK: That's my understanding. 16 given by Intrafor. COMMISSIONER HANSFORD: Thank you. 17 COMMISSIONER HANSFORD: Yes. 17 MR CHEUK: Now we go back to page 106, to look at the A. Then later on we corrected that so they didn't show the 18 18 19 19 U-bar, and that's when BD picked it up. But we had also As I understand, in simple layman language terms, 20 identified that ourselves and were working in parallel 20 there are two aspects this proposal requires. First, 21 with the -- towards measures to correct it. 21 there would be some additional rebar to be provided at COMMISSIONER HANSFORD: I see. Thank you. 22 the middle of the EWL slab; correct? 22 23 23 MR CHEUK: But, Mr Buckland, because in the bundles that A. Correct.

Q. The second aspect is that there will be some additional

anchorage provided, and the EWL slab, the OTE and the

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1 450	112	

- 1 D-wall will be concreted concurrently or monolithically;
- 2 correct?
- 3 A. Yes.
- 4 Q. That's in gist the two aspects of this proposal.
- If we turn to the next page, we see the diagram,
- 6 which actually is much easier to understand for a layman
- 7 like me. If we can go to this diagram in a bit more
- 8 detail, we first see the hatched part, there's a hatched
- 9 legend saying, "OTE and EWL slab to be concreted
- 10 concurrently".
- 11 A. Correct.
- 12 Q. And we can see it hatched three parts: the left-hand
- side, ie the OTE; the top part of the D-wall; and also
- the slab. Do I understand the meaning of this is that
- there would be some trimming down of the D-wall first,
- otherwise you cannot concrete them together?
- 17 A. Yes, correct.
- 18 Q. So the implication of this diagram actually is that
- there would be some trimming down of the top part of the
- concrete wall, and then the three parts would be
- 21 concreted together?
- 22 A. Yes.
- 23 Q. Also, from this diagram, what we can see is that there
- are still three rows of rebars; right?
- 25 A. Yes.

- 1 red in white lines; correct?
- A. Oh, in the OTE? Yes, I can see that.
- 3 Q. My understanding of this is that it implies this is not
- 4 a through-bar proposal. It implies there are considered
- 5 to be different sections. So this proposal actually
- 6 retains the use of couplers at that point of time?
- 7 A. How do you work that out?
- 8 Q. Because they are different lines.
- 9 A. You are basing that on black lines shown, which could be
- just a visual representation, to see it more clearly.
- 11 Q. Yes. That's my understanding. I have no -- I am
- 12 inferring from this use, so I'm just asking you if you
- can help me or not. I will take you to other documents
- but at this point of stage, I'm just wondering if you
- can help me to know what was exactly the proposal as of
- 16 May 2015.
- 17 A. My understanding of the proposal is that these were
- through-bars to replace the bars that were there that
- 19 had couplers.
- 20 Q. Okay.
- 21 A. And in order to do that, we had to break down the D-wall
- 22 to that point, to put the through-bars in.
- 23 Q. Yes.
- 24 A. And there's no indication of couplers on those bars, as
- you can see.

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- Q. And there's a bending up at the left-hand side, at the
- 2 OTE slab; correct?
- 3 A. Yes.
- 4 Q. And the bending up of the OTE slab is the new anchorage
- 5 provided by this proposal, to replace the missing
- 6 anchorage, ie in the original BD-accepted design?
- 7 A. Yes.
- 8 Q. And this is to address the missing anchorage problem;
- 9 correct?
- 10 A. Yes, again.
- 11 COMMISSIONER HANSFORD: Sorry, you seemed a bit doubtful
- 12 about that answer, Mr Buckland.
- 13 MR CHEUK: You can challenge me anytime. I'm not an expert.
- 14 A. It sounded like the same question twice.
- 15 COMMISSIONER HANSFORD: You might want to expand on it if 15
- 16 you wish.
- 17 A. It sounded like you asked the same question twice, so
- 18 I was just checking it was the same question.
- 19 MR CHEUK: I apologise. I just try to be reassured because
- 20 this is not my familiar area.
- 21 Another point which I try to identify is that you
- 22 can tell -- you can see, if we blow up the drawing
- 23 a little bit more regarding the three red lines, we can
- see the red lines within the diaphragm wall is red in
- 25 black lines; right? While the red lines in the OTE is

- 1 Q. Yes.
- 2 COMMISSIONER HANSFORD: Sorry, just so I can understand this
- diagram -- are there any couplers there at all in that
- 4 section? In either the top mat or the bottom mat; are
- 5 there any couplers?
- 6 A. I think you can faintly see the couplers on the lower
- 7 bars, the lower L-shaped bars.
- 8 COMMISSIONER HANSFORD: In the --
- 9 A. There are two.
- 10 COMMISSIONER HANSFORD: Down here, in this.
- 11 A. There's three bars at the bottom of the slab, which you
- 12 can see faintly couplers.
- 13 COMMISSIONER HANSFORD: You can.
- 14 A. And the two bars of the bottom of the OTE, I think you
 - can just about see couplers there as well.
- 16 COMMISSIONER HANSFORD: Right. So this is showing couplers
- on the bottom mats of both the EWL slab and the OTE, but
- no couplers on the top?
- 19 A. Yes.
- 20 COMMISSIONER HANSFORD: Thank you.
- 21 MR CHEUK: Then if we go to page 142, we can see the
- 22 proposal was also explained here a bit, in particular
 - the highlighted part:
- 24 "The top of diaphragm wall panel will be trimmed to
- 25 the lowest level of top rebar for the EWL slab (minimum

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- 1 420 ... below the top level of the EWL slab).
- 2 The top rebar of EWL slab at the D-wall panel will 3 then fix to the top rebar of OTE slab to achieve full
- 4 tension laps."
- 5 What it appears to me is unclear is still whether
- 6 couplers will be used or a through-bar will be used. It 7
- doesn't really say clearly here.
- 8 A. There are also bars in the OTE that need to be lapped
- 9 with -- the bars of the OTE wall need to be lapped with
- 10 the OTE slab.
- Q. That to you is an indication of through-bars or not? 11
- 12 A. No. It's saying that the top rebar of the EWL slab will
- 13 fix to the top rebar of the OTE slab, but if you can
- 14 have a bar that continues all the way through, then you
- 15 don't need to connect it.
- 16 Q. Then it's an indication of couplers still?
- A. No, it's not an indication of couplers or lapping. It's 17
- 18 just saying that the top bars of the EWL slab will be
- 19 connected with the OTE slab. Whether they actually need
- 20 physical connections or whether they're continuous, it
- 21 doesn't imply anything there.
- 22 Q. Exactly. That's what I heard, it's not absolutely clear
- 23 from here whether it's retaining the use of couplers or
- 24 using a through-bar.
 - Then if we read on:

- 1 Do you agree with me?
- A. Can you repeat it? 2
- 3 COMMISSIONER HANSFORD: Yes, I don't understand it either
- 4 MR CHEUK: Because the problem -- the proposal, the remedial
- 5 proposal for the first change that we have seen, about
- 6 how to remedy the missing U-bar, involved changes to the
- 7 D-wall, at least hacking off the 400 millimetres; right?
- 8 A. No. That's not the case. I think BD needed to know
 - that the D-wall, as constructed, was acceptable to
- 10 continue on with the subsequent works of EWL slab, and
- 11 by demonstrating that what we had built in the D-wall
- 12 was acceptable, then they could then allow us to go on
- 13 to the next stage. So we didn't actually have to change
- 14 anything in the D-wall because we had demonstrated the
- 15 vertical bars had sufficient anchorage without the
- 16 U-bar, and by this proposal we had demonstrated
- 17 sufficient anchorage of the EWL slab top bar, by
- 18 continuing it through to the OTE slab. So, after that,
- 19 they were satisfied that the D-wall, as constructed, was
- 20 acceptable.

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- 21 Q. Let me explain to you my query, because you might be
- 22 right. Let me explain what's in my mind.
- 23 At the time, when you applied for certificate of
- 24 completion, which means Leighton or MTRC considered the
 - D-wall has been completed, but at the same time, if you

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25

- "The EWL slab and OTE slab will be casted
- 2 concurrently with temporary openings around the existing
- 3 columns ..."

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- I think we agree on what it means; yes?
- 5 Now, I wonder if we can do a bit of summary of the
- 6 position as of around 21 May 2015. There were, it
- 7 seems, according to our discussion, two issues at the

time. The first issue is that MTRC, Leighton and Atkins

- 9 needed to properly incorporate and justify the first
- 10 change to the BD so as to obtain its approval of the
- 11 certificate of completion and record plans of the
- 12 D-walls. That's the first issue.
- 13 A. Yes.
- 14 Q. The second issue at the time was the parties, ie MTRC,
- 15 Leighton and Atkins, were also trying to obtain BD's
- 16 consent for the commencement -- agreement, I would say,
- 17 for the commencement of the excavation works. That's
- 18 why they prepared this report.
- 19 A. Mm-hmm.
- 20 Q. There was, however, it seems to me, one problem standing 20
- 21 in the way of both, ie the proposal for the first change
- 22 we have just seen, which might, one, affect the BD's
- 23 approval of the certificate of completion and the record
- 24 plans, because the BD would not approve that when they
- 25 knew it was actually subject to change very soon.

- tell the BD, "Actually, some further work, including the 1
- 2 hacking down of 420 millimetres will be necessary",
- 3 that's contradictory to your application for certificate
- 4 of completion?
- 5 A. Yes.

- 6 Q. And record plans?
- 7 A. Yes. I guess, if they had been presented with that at
- that time, then it would have conflicted with what they 8
 - had in their hands at the time.
- 10 Q. That's why I first -- when I put it to you the proposal
- 11 to -- as set out here caused concern of the two issues
- 12 I put to you earlier. The first issue is that on the
- 13 one hand you are trying to tell the BD, "We have
- 14 completed everything'; on the second hand, you are
- 15 telling them, "Actually, it's not completed, it will be
- 16 subject to change very soon." So that will be a concern
- 17 in the minds of MTRC, Leighton and Atkins; is that
- 18
- 19 A. Yes, but I need to clarify that the remedial proposal
- presented to BD was achievable without breaking down the
- 21 wall, because the concept is to continue the bars
- 22 through the D-wall into the OTE slab. So whether we
- 23 screwed in bars into the OTE slab side or hacked down
- 24 the D-wall and replaced it with continuous bars, it's
- 25 still the same concept.

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- 1 Q. I understand your position. You regard it as the same
- 2 concept. But I'm just raising, the proposal as set out
- 3 here did involve the hacking down of D-wall, which --
- 4 I'm just trying to put very neutrally -- should be
- 5 a concern of BD when you are applying for the
- 6 certificate of completion at the same time. Do you
- 7 accept that?
- 8 A. I wasn't directly involved with the discussion with BD
- 9 so I can't comment on whether that would have been
- 10 acceptable or not.
- 11 Q. And the remedial proposal, what I'm also trying to
- 12 suggest to you, is also a concern to BD, when you are
- 13 trying to obtain their agreement for the commencement of
- 14 excavation work, because, as we have discussed, the
- 15 diaphragm walls were acting as retaining walls,
- 16 resisting the pressure of the soil from both sides. So,
- 17 if you try to tamper with the top part of the diaphragm
- 18 wall, that will raise a concern of BD, whether it will
- 19 give consent or agreement to commence the excavation; is
- 20 that correct?
- 21 A. Actually, from my recollection, because we were only
- 22 going to excavate down to minus 0.5mPD and we had
- 23 an open-cut proposal, that meant it wasn't going to
- 24 affect the D-wall because the top of the D-wall would be
- 25 freestanding, with open-cut slopes on either side. So
 - Page 122
- 1 I think a decision was taken that it was not necessary
- 2 to submit reinforced concrete details for the slab at
- 3 that time.
- 4 Q. Yes, actually, exactly, I'm going to go with you into 5 that sort of communication.
- 6 But am I right to say that this proposal would
- 7 potentially raise a concern and/or is a relevant factor
- 8 for the BD's consideration in granting agreement to
- 9 excavate? Is that a fair way to put it?
- 10 A. The question is do I consider it --
- 11 Q. Agree with my statement to you that the remedial
- 12 proposal as set out here is a relevant consideration for
- 13 the BD to grant agreement to excavate?
- 14 A. I don't think it's necessarily relevant, if we decide 15 not to proceed with it.
- 16 Q. That's subsequently, but the only reason that you put
- 17 the proposal here in the temporary design report was to
- 18 submit it to the BD for the purpose of obtaining
- 19 agreement to excavate, isn't it? That is the very
- 20 purpose, and you include the proposal in the report.
- 21 A. Well, there's two aspects to it. One is, like, how do
- 22 we deal with the changed rebar arrangement in the
- 23 D-wall, and Atkins came up with the proposal -- well, in
- 24 discussion with ourselves and MTR -- and that proposal
- 25 could be executed either by using the existing couplers

- 1 in the D-wall or by cutting down the D-wall and
- 2 replacing it with a continuous bar.
- 3 So if the decision was taken to leave the couplers
- 4 in the D-wall, then it's perfectly reasonable to not
- 5 include it in this version of the report.
- 6 Q. Yes. But why I'm putting the proposition to you is
- 7 rather very mild, actually, because you see you use this
- 8 report to obtain agreement from the BD for excavation to
 - consent, and if the proposal is not relevant you would
- 10 not have included it in this report in the first place.
- 11 So, by the very reason you included this in the
 - report, you must -- even from your own stance, it must
- 13 be relevant to the BD's consideration of granting you
- 14 the excavation agreement?
- 15 A. I disagree.

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- 16 Q. Thank you. Now I am coming to what you mentioned about
- 17 the correspondence or some conversation regarding the
- 18 submission of the reports; okay?
- 19 If we go to J2/1669 -- if we look at the email here,
 - it's an email dated 22 May 2015, so just one day after
- 21 BD's rejection of the application for certificate of
- 22 completion. It's from Betty Ng of Leighton to
- 23 Edward Tse of Atkins, I believe, and it was cced to you,
- 24 we see your name there; right?
- 25 A. (Nodded head).
 - Q. So the email says as follows: 1
 - 2 "Edward.
 - 3 As spoke, I disagree we put ..."
 - Before I go into detail, is it correct that Betty Ng
 - 5 was reporting to you at the time?
 - 6 A. Yes.

- 7 Q. If I may carry on with the content here, it says:
- 8 "Edward,
- 9 As spoke, I disagree we put the 'missing U-bar'
- 10 remedial in our ELS submission as BD do not know about
- this 'formally' and MTR will reflect the changes in the 11
- 12 coming DDC amendment submission."
- 13 Let's try to clarify the language here. So the
- 14 missing U-bar remedial is the proposal that we have just
- 15 seen; correct?
- 16 A. Yes.
- 17 Q. "In our ELS submission" is the report TWD-004B that we
- 18 have just seen; correct?
- 19 A. (Nodded head).
- 20 Q. And the last bit, "the coming TDC amendment
- 21 submission" -- "DDC" means detailed design consultant,
- 22 ie Atkins; correct?
- 23 A. Yes.
- 24 Q. And "DDC amendment submission" relates to permanent
- 25 works submission?

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- A. Yes.
- 2 Q. And the ELS submission relates to temporary works
- 3 submission; correct?
- 4 A. Yes.
- 5 Q. What in here she says in gist here is that she doesn't
- 6 want the proposal to go in the temporary works report,
- 7 but would rather the proposal to be reflected in the
- 8 coming permanent works report; correct?
- 9 A. Yes.
- 10 Q. Then I move to the next paragraph:
- 11 "Also the design changes are different from the
- endorsed TWD-025C and DDC amendment submission." 12
- 13 This TWD-025C is another different temporary works
- 14 design report; right?
- 15 A. Yes.
- 16 Q. And what she says here is that the proposal we have seen
- 17 is different from the then endorsed detail approved by
- 18 the BD: correct?
- 19 A. Yes.
- 20 Q. And:

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- 21 "TWD-004B -- again", she says, "we only need to
- 22 demonstrate to BD the minimum stiffness is used to match
- 23 TWD-025C and the DDC amendment submission.
- 24 Understand you will speak to Kevin Yip on the
- 25 submission strategy, please give us a feedback
- Page 126
- and he says:
- 2 "Betty,
- So, in gist, what I understand from this email is
- 3 that she wants to take back the remedial proposal from
- 4 the temporary works design report, and hopefully it will
- 5 be reflected by MTRC in the permanent works design
- 6 report in the future. One of the reasons was the
- 7 remedial proposal was different from the endorsed report
- 8 as known to BD at the time. She doesn't want to
- 9 complicate the issue.

afterwards."

- 10 A. Well, the TWD-25 report is for the D-wall, and the
- 11 remedial proposal wouldn't be shown in the D-wall
- 12 submission anyway. But the DDC reports include the
- 13 whole of the primary structures, so including the
- 14 D-walls and the slabs.
- 15 So our concern was that -- well, and MTR's concern,
- I believe -- if we submitted rebar details that included 16
- 17 the remedial proposal with our temporary works
- 18 submission, it would clash with what was already with
- 19 BD.
- 20 Q. Exactly.
- 21 A. It would cause further delay. So, instead of submitting
- 22 a full excavation submission, to excavate all the way
- 23 down to the NSL slab, we decided to submit just
- 24 a temporary works, a very temporary works submission,
- 25 of open-cut submission that wouldn't affect the D-wall.

- 1 So, no matter what the D-wall details were at the time,
- 2 it would have no impact on the D-wall, so there would be
- 3 no reason for BD to reject the submission because the
- 4 D-wall was not going to be used at that time.
- 5 Q. Yes. We will come to the details in subsequent emails.
 - What is in gist here is that petty Ng didn't want the
- 7 remedial proposal --
- 8 A. Sorry, can I correct you there?
- 9 Q. Yes.

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- 10 A. It does say that -- I don't know if it says in this
 - email but she has said in one of her emails that it was
- subsequent to speaking with Kevin Yip of MTR. 12
- 13 Q. Yes. We will take you to that in due course. What I am
- 14 trying to summarise in gist here is that Betty Ng didn't
- 15 want the proposal to be included in the TWD report
- 16 because she's afraid that might raise, to her mind,
- 17 unnecessary concern of the BD which might delay the
- 18 excavation agreement from the BD.
- 19 A. Yes.
- 20 Q. Is that a fair way to put it?
- 21 A. Yes.

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- 22 O. Okay. Let's move on to J2/1668. We see Edward Tse's
- 23 reply, the previous page, at the bottom -- because it's
- 24 arranged in reverse order, that's why we read from the
 - bottom up. So this is Edward Tse's reply to Betty Ng
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3 If not putting this item in this submission and

follow to what you suggest to put it in DDC document,

5 your remedial proposal should be ready now before DDC

could incorporate that on 10 June?"

- First of all, regarding the sentence, do
- 8 I understand correctly that what Edward Tse is asking
- 9 Betty Ng to do is you need to give more detail to the
- 10 remedial proposal so that it could be incorporated on
- 11 10 June permanent works submission? Do I understand
 - correctly?
- 13 A. Actually, I've been trying to figure out exactly what he
- 14 means here. It may be that he was expecting that the
- 15 detail be incorporated into that submission that was
- 16 coming up in a few days, and that probably wasn't the
- 17 idea. The idea was probably for the next submission.
- 18 Q. He probably made a mistake on that; that's your
- 19 understanding?
- 20 A. Yes.
- 21 Q. Okay. Carry on:
- 22 "Also" --
- 23 A. Also, sorry, him asking us -- asking Betty to provide
- 24 more details -- it's actually Atkins providing the
- 25 remedial details, so I also don't understand that

Page 131 Page 129 1 COMMISSIONER HANSFORD: Yes. request from him. It's not us providing the remedial. A. -- and had horizontal couplers and that wasn't going to 2 Q. It's okay. It's not the most important part of this 3 3 change. So when he talks about putting the remedial email so ... into the D-wall submission, that doesn't make sense. 4 If I may carry on: 4 COMMISSIONER HANSFORD: I think it's a bit difficult for us 5 "Also, as mentioned in the meeting yesterday with 6 to interpret what Mr Edward Tse may have been trying to Andy Leung ..." 7 Andy Leung is a design manager of MTRC; correct? say here, when neither the witness knows or -- we can't 8 8 tell from reading it, can we? A. Mm-hmm. 9 Q. "... he also said we should keep what we are in the MR CHEUK: Yes, certainly. I'm doing the best I can. COMMISSIONER HANSFORD: I know you are. 10 contractor slab submission on the additional rebar at 11 11 MR CHEUK: He's copied in. I'm trying to see -- he's the 12 highest position keeping track of this communication, so 12 First of all, if I may clarify with you, the 13 reference to the "contractor slab submission on the 13 I'm not going to debate with him at any point here but 14 additional rebar at mid-span", that is a reference to 14 I'm trying to see if he can assist to a certain extent 15 15 the remedial proposal; is that correct? as best we can. 16 A. I think maybe what he means is that since the latest 16 A. Yes. 17 Q. In essence, he said Edward Tse discussed with Andy Leung 17 version of the D-wall submission was going to show the 18 yesterday, ie on 21 May, and Andy Leung said "should 18 actual details, the actual --19 Q. The remedial? 19 keep the remedial proposal". 20 A. I think it should read "what we have" but ... 20 A. Not the remedial, the actual rebar that was in the 21 Q. And then: 21 D-wall -- since it was going to show that, then he 22 22 "For TWD-025, I understand there will be couldn't understand why we wouldn't have the remedial 23 23 detail shown in the slab submission. a resubmission due 29 May 2015 which would include the 24 missing U-bar detail. So I can't see why this item not 24 Q. Okay. So if we scroll down a little bit, let's see --25 include in this document. Please clarify." 25 COMMISSIONER HANSFORD: Sorry, when you say "perhaps he was Page 130 Page 132 1 out of the loop", do you mean out of the loop in terms 1 What he in essence says is that actually the rebar 2 2 remedial proposal would be included in the TWD-25 which of the submission strategy? 3 A. Yes. That's why Betty asked him to speak to Kevin. 3 would be submitted to the BD on 29 May. So the BD would 4 know about this remedial proposal by then anyway, so 4 COMMISSIONER HANSFORD: Yes. 5 what's the point of keeping it from the BD in TWD-004B2? 5 A. And to speak to his boss, Rob McCrae. 6 Do I understand that correctly? 6 COMMISSIONER HANSFORD: Yes. I understand now. Thank you 7 7 MR CHEUK: We see now Betty replying to Edward Tse. Again, A. Something doesn't make sense in here, because TWD-25 is 8 a D-wall submission, and the rebar remedial wouldn't be 8 you were copied in. 9 9 A. Yes. shown in the D-wall submission. It would only reflect 10 the actual -- like what we knew was the actual rebar in 10 Q. She said: 11 "Edward, Rob, 11 the D-wall. The actual remedial itself would show up in 12 Further to the discussion with Kevin yesterday ..." 12 the slab submission, not the D-wall submission. 13 "Kevin" was Kevin Yip from the MTRC? 13 Q. So you --14 A. So I think in this case Edward was maybe --14 A. That's right. Q. "... for the initial excavation down to negative 0.5mPD, Q. Mistaken? 15 15 16 confirmed that we are not going to submit TWD-004B to BD 16 A. -- a bit out of the loop and not quite --Q. He's mistaken but his point is that actually the detail, 17 for not to confuse BD and complicate the issue." 17 18 the remedial proposal would be revealed to the BD soon 18 That's the point you just made? 19 in another submission, so what's the point of keeping it 19 A. Correct. 20 20 Q. So what was said here is that originally, as from the BD in this submission? That's in essence his 21 I understand it, the TWD-004B report was to justify the 21 point: right? And --22 agreement of BD for all the excavation? 22 COMMISSIONER HANSFORD: Is that his point though? 23 23 A. Like I say, it's a bit confused because what goes into A. Yes, I think that was the intention before. 24 the D-wall submission is the D-wall rebar itself, and Q. That was the original intent? 25 A. Yes. 25 the D-wall rebar, as we know, was missing U-bars --

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- Q. But, as a result of discussion, in order not to confuse
- 2 the BD or complicate the issue, as stated here, what you
- 3 guys decided was to do it in two phases.
- 4 A. Mm-hmm.
- 5 Q. On the first phase, you excavate to negative 0.5mPD.
- 6 A. Yes.
- 7 Q. For that purpose, you guys decided not to submit the
- 8 004B report.
- 9 A. Yes.
- 10 Q. Which included the remedial proposal; correct?
- A. Correct, but just to note, there was a separate report 11
- 12 dealing with the remedial proposal.
- 13 Q. Yes. I'm coming to that, rest assured. I've gone
- 14 through the documents. I'll take you to that. You are
- 15 referring to the permanent design report; right?
- 16 A. Yes.
- 17 Q. We'll go to that, but let's focus on this stage first.
- 18 "As we only need BD's approval to start the initial
- 19 bulk excavation and the D-walls have not been loaded in
- 20 the initial stage, we will submit TWD-381 (open-cut
- 21 excavation to -0.5mPD ...) to include assessment to the
- 22 D-wall checking up to -0.5mPD."
- 23 In essence, what is said here is that -- so the
- 24 excavation will be divided into two phases. The first
 - phase will be down to negative 0.5mPD, and you guys
- 1 agreed not to submit the TWD-04B report for this
- 2 purpose?
- 3 A. Yes.

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- 4 Q. Instead you used another report, ie the TWD-381, to seek
- 5 the BD's agreement to grant consent or agreement to
- excavate down to 0.5mPD? 6
- 7 A. Yes.
- 8 Q. The purpose, again, for this strategy, submission
- 9 strategy, is again to avoid any potential query raised
- 10 by BD in regard to the agreement of excavation; correct?
- 11 A. Yes. I prefer to say to smooth the process.
- 12 Q. Then if we go to down, scroll down a little bit, we see
- 13 on 27 May, about four days later, Betty sent an email to
- 14 Edward and said:
- 15 "Rob" -- ie Rob McCrae from Atkins.
- 16 A. Yes.
- Q. "... told me you are going to speak (confirm) with Kevin 17
- [Yip from MTRC] for submission approach as below, did 18
- 19 you speak to him?"
- 20 So Betty is chasing Edward on the submission
- 21 approach. And then we see -- can we carry on to scroll
- 22 to the upper part of the page -- then we need to turn
- 23 over to page 1667. Then we get the reply from
- 24 Edward Tse to Betty, and Edward Tse says:
- 25 "Betty,

- 1 I have spoken to him and the approach is the same as
- 2 you said."
- 3 So basically the agreement of this submission
- 4 approach.
- 5 "But I will confirm with him if I put the remedial
- 6 proposal in the DDC submission, I need a formal
- 7 instruction from MTR."
- 8 A. Yes.
- 9 Q. So, at that point of time, it seems that everybody
- 10 agreed within MTRC, Leighton and Atkins that we will use
 - a different TWD report to obtain agreement to excavate
- 12 down to 0.5mPD?
- 13 A. Yes.

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- 14 O. And:
- 15 "Regarding the contractor slab submission ..."
- 16 Ie the remedial proposal, is that correct, in the
- 17 next paragraph?
- 18 A. Well, contractor slab submission is required anyway,
- 19 regardless of remedial proposal.
- 20 Q. Okay. The remedial proposal is part of the contractor's
- 21 slab submission; is that a more correct way to put it?
- 22 A. Yes.

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- 23 Q. "... I will take out section 1.3.6 about additional
- 24 bottom rebar and also the whole RC drawings for both
 - part I and part II. Report will be updated by today."

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- We have seen the TWD report. The paragraph is
- 2 1.3.5. Is this, as you understand, only a typo or it
- 3 refers to something else, this 1.3.6?
- 4 A. I thought 1.3.6 is the paragraph showing the diagram of
- 5 the continuous piles.
- 6 Q. No. I can show you that it's 1.3.5. If you look at
- 7 J1/106. You see it's 1.3.5.
- A. Okay. Can you show me 1.3.6?
- Q. Can the witness be shown the next page.
- 10 A. Yes, I agree, it must be a typo.
- 11 O. Thank you.
- 12 As I understand it, after this email correspondence,
- 13 Leighton did obtain the consent to excavate down to
- 14 negative 0.5mPD, relying on TWD-381, before --
- 15 COMMISSIONER HANSFORD: Sorry, can we be sure that it wa
- 16 1.3.5 that was omitted and not 1.3.6?
- 17 MR CHEUK: Professor, you mean in the TWD report or --
- 18 COMMISSIONER HANSFORD: Yes, because it says "I will take
- 19 out section 1.3.6", which apparently is a typo, it
- 20 should have been 1.3.5, and what really interests me is
- what was actually taken out? Perhaps we will come to 21
- 22 that.
- 23 MR CHEUK: We will see an updated version.
- 24 COMMISSIONER HANSFORD: We will come to that.
- MR CHEUK: We will come to that and we can do a comparison.

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- COMMISSIONER HANSFORD: I just put that marker down for now
- 2 MR CHEUK: Going back to my question, which was Leighton did
- 3 obtain agreement to excavate down to 0.5mPD, relying on
- 4 different report, before July 2015; is that correct?
- 5 A. I can't remember the exact date.
- 6 Q. But you did obtain the agreement to excavate, of course;
- 7 right --
- 8 A. Yes.
- 9 Q. -- subsequently? If we go to J5/3363, this, you can
- 10 see -- you can see the reference to TWD-381 there;
- 11 correct?
- 12 A. Yes.
- 13 Q. Then if we can go to the next page, this is the 381
- 14 report that was used to obtain agreement to excavate
- down to negative 0.5mPD? 15
- 16 A. Yes.
- 17 Q. Do I also understand it correctly that there is no
- 18 reference to the remedial proposal in this report?
- 19 A. Yes, I believe there wouldn't be, because it's really
- 20 a temporary works only report.
- 21 Q. Now we come to professor's question actually, the final
- 22 version form of the TWD.
- 23 If we can go to B10/7256, we see this MTR's letter
- 24 dated 29 July 2015, and it's submission to the BD, the
 - design report and other documents, and it's signed by
- Page 138

- 2 A. Yes.

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3 Q. If we go over the page, and maybe another page -- maybe

Mr Andy Leung, the design manager of MTRC; okay?

- 4 one more page, until we get to the first page of the
- 5
- 6 COMMISSIONER HANSFORD: We're there.
- 7 MR CHEUK: We've got it. 7262. We see this is the final
- 8 version of the TWD report submitted to the BD; okay?
 - We can see that it's named TWD-004B3, which is one
- 10 version after B2.
- 11 A. Yes.
- 12 Q. If we go to B7264, we again see the history of the
- 13 development of this report. The fourth issue, B2
- 14 version, is the one we have seen, and now we come to the
- 15 final, fifth issue, B3; correct?
- 16 A. Yes.
- 17 Q. If we now go to look at B10/7277, now we see the version
- 18 of 1.3.5 here. What I can suggest to you is we see the
- 19 details have been substantially cut down and the
- 20 figure 1.4 was removed; correct?
- 21 A. Yes.
- 22 Q. We see the paragraph says here:
- 23 "The justification of reinforced concrete design for
- 24 the as-built reinforcement detail at the interface
- 25 between the diaphragm wall and the EWL slab between

- 1 gridlines 22 to 40 because of the missing U-bar in
- 2 diaphragm wall can refer to report no. PWD-059A1
 - submitted by the contract."
- 4 "PWD" means permanent design report?
- 5 A. Yes, permanent works design.
- 6 Q. Essentially, this report says that if you want to know
- 7 the remedial proposal, go to the permanent design
- 8 report?
- 9 A. Yes.

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- 10 Q. Can you tell us -- let me rephrase.
 - This report, if we go back to the first page, ie
- 12 7262 -- my apologies, I would like to go to 7256 -- if
- 13 you look at the covering letter for this report,
- 14 basically it says:
- 15 "Design report for HUH station excavation and
- 16 lateral support for area C1 and C2 -- excavation below
 - negative 0.5mPD".
- 18 So the purpose of this report was to obtain
- 19 agreement from the BD for further excavation; correct?
- 20 A. Yes.
- 21 Q. And while I can understand that you use the open-cut
- 22 report to obtain agreement from the BD for excavation
- 23 down to negative 0.5, and for that purpose, as you
- 24 explained, any remedial proposal at the top of the
 - diaphragm wall is not really relevant because that part
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1 of the diaphragm wall was not loaded?

- 2 A. For the first excavation, yes.
- 3 Q. But when you or MTRC made the application here for
 - further excavation, the remedial proposal or changes at
- 5 the top of the diaphragm wall will be relevant; is that
- 6 correct?
- 7 A. Yes.
- Q. What I don't understand is that if it's relevant, why 8
 - don't you keep the original details and figure 1.4 here
- 10 and would like to remove it to the notice of BD?
- 11 A. All I can think is that it was -- at the time of B2, it
- 12 was taken out because we thought we were going to submit
- 13 4B2, and then it was replaced by TWD-381, and then by
- 14 the time we came to do B3 it just seems like it wasn't
- 15 put back in, maybe just an accidental omission.
- 16 Q. I see. You say it's only an accidental omission?
- 17 A. I can't remember the exact details of it from the time,
- 18 but this is -- I mean, it's still in the text, in the
- 19 4B3 test, that we were going to break down the top of
- 20 D-wall and put continuous bars in, but it's just that
- 21 diagram was not put back, for one reason or another, I'm 22
- 23 Q. I just wonder, is it -- the phrase "submission strategy"
- 24 was used in those email chain of correspondence. Was
- 25 this omission or amendment of paragraph 1.3.5 part of

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- 1 the submission strategy adopted at the time to make the
- 2 remedial work proposal less conspicuous to the BD, so as
- 3 to obtain excavation consent more easily?
- 4 A. I have already explained to you that we decided to go
- 5 with the temporary works only submission, in order to
- 6 carry out the first phase of excavation, which didn't
- 7 affect the D-wall. You know, it's a submission
- 8 strategy. It's a common thing to do in these kinds of
- 9 projects. You have to time your submissions well so
- that you can smooth the process and, you know, not
- 11 hinder the work.
- 12 Q. You recall that MTRC, Leighton and Atkins faced
- another -- second issue, what I call, at the time, ie to
- 14 obtain BD's approval of certificate of completion and
- record plan for the diaphragm walls; right?
- 16 A. (Nodded head).
- 17 Q. You also recall that as part of the submission strategy
- 18 you just mentioned, the remedial proposal was supposedly
- to set out in a permanent works submission that we have
- seen the reference to.
- Now if we go to, same bundle, 7322. We see this is
- a letter from MTRC to the BD, which actually contains
- the PWD report.
- 24 If we can scroll down a little bit, the purpose of
- 25 this submission is to provide justification to the BD in

1 A. Okay.

- 2 Q. If we look at the document number at the top, we see
- 3 "PWD-059A3".
- 4 A. Yes.
- 5 Q. If we go down, we see the history of this report. A1
- 6 was prepared in around June, and A2 and A3 were around
- 7 on around 9 July?
- 8 A. Yes.

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- 9 Q. If we go to 7328, we see that there is an overview of
- the eastern D-wall between gridlines 15 to 50, we can
 - see from the second paragraph:
- 12 "The reinforcement at the diaphragm wall to EWL
- slab, between gridlines 15 to 49/50 on the east side and
- the northern return has not been constructed in
- accordance with the design drawings."
- 16 Ie what we call the first change.
- 17 A. Yes.
- 18 Q. Then we see, on 7330, at the top first, if I may, it
- 19 says
- 20 "The as-built reinforcement differs from the design
- 21 drawing in that the tension reinforcement from the EWL
- slab has (i) insufficient anchorage ... and (ii) is not
- lapped with the diaphragm wall steel. Refer figure 2",
- et cetera.

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Then at the bottom, if we can go to the bottom part

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- order to obtain the certificate of completion for the
- 2 D-wall; is that correct?
- 3 A. It doesn't say that, no.
- 4 COMMISSIONER HANSFORD: I suppose that then leads to the
- 5 question that if it doesn't say that, what is the
- 6 purpose of this submission?
- 7 A. I think the main purpose of this is to provide an update
- 8 on the primary structure submission and include the
- 9 assessment report for the changes in the D-wall
- 10 reinforcement.
- 11 COMMISSIONER HANSFORD: Right.
- 12 A. Which, although it doesn't say it's for the purpose of
- gaining approval of the BA14, it was necessary for that.
- But, as you can see, this is a seventh amendment of
- 15 the primary structures, and there were several more
- after this, so, you know, it's a routine thing to submit
- these amendments every so often.
- 18 COMMISSIONER HANSFORD: I see.
- 19 A. And in this particular one, they included the assessment
- 20 report for the remedial works.
- 21 MR CHEUK: Yes. If you go to 7326, we again see the history
- of this report. It's first prepared in around June
- 23 2015 --
- 24 A. Sorry, which report is this again?
- 25 Q. This is the PWD report.

- of this page:
- 2 "Firstly, the issue of the anchorage. This can be
- 3 resolved by extending the steel into the OTE slab
- 4 opposite to obtain sufficient anchorage. This will
- 5 require resequencing the works to ensure that the OTE
- 6 slab is cast prior to excavating top down beneath the
- 7 EWL.
 - The second issue ..."
 - I don't need to go into the detail. You of course
- read the report at the time?
- 11 A. Yes.
- 12 Q. I think you can confirm to us that the purpose of this
- report is really to explain to the BD it's okay even
- 14 after the first change?
- 15 A. Yes.
- 16 Q. Subject to some work to be done?
- 17 A. That's right, yes.
- 18 Q. The modification work to be done is at 7333. He says:
- 19 "To provide the full tension anchorage for the slab
- $20\,$ $\,$ rebar, the rebar are extended into the OTE slab/wall
- 21 with full tension anchorage lap length, end of the bar
- with a standard bend-up hook as recommended in the Concrete Code -- 2013. To comply with this principle,
- the OTE slab/wall must be concrete
- 25 monolithically/concurrently (ie at the same time) with

6

- 1 the 3 metre EWL slab and provide adequate lap length
- 2 details to future OTE wall construction, detail refer to
 - appendix F of this report."
- 4 That is a summary of the remedial proposal,
- 5 consistent or similar with what was set out in the
- 6 temporary design report; correct?
- 7 A. Correct.

3

- 8 O. If you go to appendix F, which is at 7355.
- 9 Then if we go down to the drawing, 7357. If you
- 10 blow up the drawing a little bit, we see essentially the
- 11 remedial proposal drawing is here. There are several
- 12 points I wish to point out to you. First of all, I have
- 13 tried to find any reference to trimming down of concrete
- 14
- in the whole report, and it doesn't say so. Do you have
- 15 any response to why it doesn't refer to any trimming of
- 16
- 17 A. Well, yes. I can say first of all you were talking
- 18 about the first change, first of all.
- 19
- 20 A. You haven't introduced talking about the second change
- 21
- 22 Q. No. We are probably at cross-purposes.
- 23 Because, as a result of the first change, you need
- 24 to provide a remedial proposal, and according to your
- 25 understanding of the remedial proposal, as we have seen

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- 1 Q. Yes, but going to -- if we can recall, the remedial
- 2 proposal, if we can recall, originally in the TWD report
- 3 sets out quite expressly, before the submission
- 4 strategy, the trimming down of concrete, first in the
- 5 diagram, figure 1.4, and second in the section 6.2 that
 - we have gone through.
- 7 But this point, first of all, was nowhere mentioned
- 8 in the PWD report, when you use the whole report to tell
- 9 the BD that the first change was okay subject to this
- 10 remedial proposal, I was wondering why all parties,
- 11 including MTRC, Leighton and Atkins considered, for
- 12 example, there is no need to refer to trimming of
- 13 concrete and, for example, the inclusion of figure 1.4
- 14 in this report, where you specifically and
- 15 comprehensively deal with this issue?
- 16 A. Well, I think the reason for not including the remedial
- 17 detail in the temporary works report was because the
- 18 discussions were still ongoing with BD, and you can see
- 19 that this PWD-59A3 report had not been finalised at the
- 20 time when we submitted our 381 report.
- 21 So the reason for not including it is because the
- 22 remedial detail hadn't been finalised yet. It's not
- 23 because we didn't want to include breaking down of the
- 24 D-wall.
- 25 Q. But at the time of this report, as you said, you give

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- 1 in the temporary design report, that does involve
- 2 trimming down of concrete; correct?
- 3 A. Can you just repeat that again?
- 4 Q. According to the temporary design report that we have
- 5 seen, the remedial proposal for the first change that
- 6 Leighton had in mind at the time did involve trimming
- 7 down of concrete?
- 8 A. Yes. It's one way of executing the remedial proposal.
- 9
- 10 A. The fact is that the main point of the remedial proposal
- 11 is how to deal with the lack of anchorage of the EWL
- 12 slab and the OTE slab, and how to -- and the calculation
- 13 of the anchorage for the D-wall vertical bars. And this
- 14 report deals with that, and you can see there's a clue
- 15 in the report where it says the EWL slab and OTE slab
- 16 must either be cast monolithically or concurrently,
- 17 that's another clue, that Atkins didn't have just this
- 18 one way of dealing with the situation in their mind.
- 19 The other clue is the fact that they put the breaking
- 20 down of the D-wall into 4B2 report.
- 21 Q. Yes.
- 22 A. So isn't that an indication that the method of executing
- 23 this remedial detail is not the important aspect? The
- 24 important aspect is that the remedial detail is
- 25 executed.

- 1 some clues of trimming down concrete, when you say
- 2 "monolithically". So why don't you just say it more
- 3 expressly so that everybody can understand what you need
- 4
- 5 A. I'm not saying that was what we put into the report or
- 6 what Leighton put into the report. I'm just saying that
- 7 in Atkins' mind there was clearly different ways of
- 8 doing the remedial, and the fact they didn't show that
- 9 particular method of doing it, you know, I'm not sure
- 10 why they didn't show that.
- 11 COMMISSIONER HANSFORD: Mr Buckland, are you saying that in
- 12 order to construct it monolithically, you obviously had
- 13 to break it down?
- 14 A. Yes.
- 15 COMMISSIONER HANSFORD: So what you are showing here is the
- 16 permanent detail, not the way in which you got to the
- 17 permanent detail?
- 18 A. Sorry, say again?
- 19 COMMISSIONER HANSFORD: So what you are showing here is the
- 20 permanent detail, not the means to which you achieved
- 21 the permanent detail?
- 22 A. Yes, correct.
- 23 COMMISSIONER HANSFORD: And the breaking down is part of the
- 24 means of achieving it?
- 25 A. Yes, or one possible means of achieving it.

1	Page 149		Page 151
	COMMISSIONER HANSFORD: But the important thing here is that	t 1	(3.46 pm)
2	it's monolithic?	2	(A short adjournment)
3	A. Yes, but they mentioned that it's either got to be cast	3	(4.01 pm)
4	monolithically or what's the other one?	4	MR CHEUK: Thank you, Chairman and Professor.
5	concurrently. So if the D-wall is left intact, then it	5	If we may go back to B10/7322. If we blow it up
6	would be concurrent pours of both sides of the D-wall.	6	a little bit on the first paragraph, it says:
7	COMMISSIONER HANSFORD: Yes.	7	"A copy of design report for HUH station primary
8	A. If the D-wall is broken down, it would be monolithically	8	structure and excavation and lateral 7(th amendment
9	poured, because it would be all the way through,	9	submission)"
10	continuous.	10	As I understand, the PWD report that we have just
11	COMMISSIONER HANSFORD: Yes, I understand. Thank you.	11	discussed is only a part of the 7th amendment
12	MR CHEUK: But as I understand, you say trimming down of the	12	submission; is that correct?
13	concrete was just one of the ways. Are you at this	13	A. I think it's separate from the 7th amendment.
14	moment at this point in time making the submission that	14	Q. Actually, the 7th amendment submission is somewhere
15	Leighton or MTRC was contemplating not breaking the	15	else, which we can find at C17/12101. This is indeed
16	concrete as another way of doing the remedial proposal?	16	the 7th amendment submission; correct?
17	A. Yes. There were some instances where the D-wall was not	17	A. It looks like it, yes.
18	broken down.	18	Q. Because it does say "7th amendment submission".
19	Q. If that's the case, when we discuss the meaning of	19	COMMISSIONER HANSFORD: That's a clue.
20	monolithic, we say cast in one piece, wouldn't that be	20	MR CHEUK: If we go to 12111, there we find the executive
21	contrary to the concept of monolithic if you say we	21	summary; right? Then we find:
22	don't need to break down the D-wall, the top part?	22	"The primary changes are as follows:
23	A. No, what I'm saying is I've mentioned both monolithic	23	Incorporates the justification of reinforced
24	and concurrent.	24	concrete design for the as-built reinforcement detail at
25	COMMISSIONER HANSFORD: Which are not the same thing.	25	the interface between the diaphragm wall and the EWL
	Page 150		Page 152
1	A. Yes.	1	slab between gridlines 22 to 40 because of the missing
2	MR CHEUK: I see.	2	U-bar in diaphragm wall. For detail information can
3	COMMISSIONER HANSFORD: Perhaps this room needs a little bit	3	refer to report no. PWD-059A1 submitted by the
4	of explanation about, on the one hand, monolithic, and	4	contractor."
5	on the other hand concurrent. I think I've got it but	5	I think that's a typo; it should be A3.
6	I suspect some of the people in this room haven't. So	6	A Van Ithinhaa
_	it might be helpful, Mr Buckland, if you could just give		A. Yes, I think so.
7		7	Q. So, as I understand it, both this 7th amendment
8	us a couple of minutes on the difference between	8	Q. So, as I understand it, both this 7th amendment submission and the PWD report was given to BD at the
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- 1 You need to speak up.
- 2 A. Well, I'm not saying anything; I can't speak up if I'm
- 3 not talking.
- Q. I apologise. I thought you were making some gesture. 4
- 5 A. I'm not sure what your question actually is, because you
- 6 are suggesting that the only reason that we would submit
- 7 changes to BD is only to get a certificate, and I don't
- 8 think that's the case.
- 9 Q. I mean -- not the only reason but one of the reasons,
- 10 you know, in the context of asking a certificate of
- 11 completion from the BD, and then BD raised a query with
- 12 you, "What happened to the first change?", and asked you
- 13 for justification, and here comes the justification
- 14 saying, "This is the justification", so I'm suggesting
- 15 to you that one of the purposes for providing this
- 16 justification is to get the certificate of completion.
- 17 A. Okay. That's fair enough.
- 18 Q. But --
- 19 COMMISSIONER HANSFORD: Sorry, was that an agreement?
- 20 MR CHEUK: I think I said "but".
- A. My opinion is that PWD-59A3 is the main report for 21
- 22 satisfying BD, and then submission of the primary
- 23 structures report is just the routine submission to get
- 24 those changes in to BD.
 - If I understand -- if you can explain the purpose of

- A. Sorry, can I interrupt?
- 2 Q. Yes.
- 3 A. The remedial detail was to demonstrate to BD that the
- 4 way the D-walls are being built was going to be
- 5 acceptable.
- 6 Q. And completed? Do I understand correctly that when you
- 7 get a certificate of completion, you are not just
- 8 telling the BD that it's safe; you are telling the BD
- 9 that it's completed?
- 10 A. Yes. Well, the D-walls were completed.
- Q. But if you are going to carry out some more remedial 11
- works at the D-wall, how can you say the D-wall was 12
- 13 completed?
- 14 A. Remedial works is not part of the completed D-wall. The
- 15 D-wall is constructed -- the D-wall was constructed and
- 16 the completion certificate is to accept that the D-walls
- 17 were constructed in accordance with the details that BD
- 18 have been given, and there was a long process where we
- 19 had to amend -- we had to submit design amendments to
- 20 make sure that the as-built details of the D-wall
- 21 matched with the design amendment.
- 22 Q. My difficulty is really this, Mr Buckland. If
- 23 I understand correctly, a certificate of completion
- 24 means the work has been completed and no more remedial
 - work is necessary. At the same time, this concept of

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1 applying for a certificate of completion at the same

- 2 time with telling the BD that some more remedial works
- 3 would have been necessary is problematic and
- 4 contradictory to me.
- 5 A. But hold on a second. You've already said that you

25

- 6 consider the PWD-59A3 report is not suggesting to BD 7
 - that there's further remedial works.
- 8 We build or Intrafor build a D-wall, and however
- 9 they have built it, that is the completed works. If
- 10 it's modified later, then it doesn't affect how the
- 11 D-wall was actually constructed.
- 12 Q. In the first place, not at the time of you apply
- 13 for certificate of completion; right?
- 14 A. Well, we applied for certificate of completion earlier
- 15 on in 2015. Those D-wall panels were completed, and
- whatever was in the wall at that time, that is the 16
- 17 as-built condition at the time of completion.
- 18 Q. Do I understand you correctly, you are saying that you
- 19 can apply for a certificate of completion based on the
- 20 as-built condition at the time of 2015, you know, and at
- 21 the same time you can carry out remedial works
- 22 afterwards? Do I understand that's your understanding
- 23 of the procedure?
- 24 A. Well, Intrafor was responsible for constructing the
- 25 D-wall panels; right?

your question, then I may be able to answer it better.

- 2 O. Maybe I'll rephrase, it is easier.
- 3 I'm suggesting to you that one of the reasons of the
- 4 7th amendment submission and PWD report was for the
- 5 purpose of obtaining certificate of completion from the
- 6

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- 7 A. One of the reasons, yes, I agree.
- 8 Q. One of the reasons. But -- I come to the "but" part --
- 9 it seems to me the approach is problematic because,
- 10 coming back to the original question I posed to you
- 11 a while ago, on the one hand you ask BD for
- 12 a certificate of completion, and on the other hand you
- 13 are implicitly telling the BD, "I'm going to change it".
- 14 Isn't that a bit contradictory to me?
- 15 A. What do you mean?
- Q. Well, if BD give you the certificate of completion, how 16
- 17 can you say -- how can they say it's actually completed
- 18 when they knew you were going to change it, as set out
- 19 in the PWD report?
- 20 A. But the PWD report is explaining the remedial details
- 21 for the change in rebar and the D-wall.
- 22 O. Yes.
- 23 A. And the certificate is to confirm that the walls were
- 24 built in accordance with the latest design drawings.
- Q. Let's say --

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Page 157 Q. (Nodded head). A. They completed their works. Their authorised signatory,

AS, signed off the drawings, the as-built details, some 4 of which turned out to be not quite correct and had to

5 be fixed over a period of several months. But the

6 simple fact is we are submitting what was actually built

7 in the D-wall.

2

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8 At that time, we didn't know exactly which panels 9 were going to be broken down and replaced with a better

10 detail, but the way the D-wall was constructed and the

11 way -- and the BA14 drawings, the details shown on BA14

12 drawings were demonstrated to be acceptable for the 13 remedial detail.

14 Q. Yes, but as a matter of logic I would suppose the proper 15 way to do it is to stop applying for a certificate of

16 completion, because you know there would be further

17 remedial work carried out?

18 A. Why would we stop applying for a certificate when we're 19 on an important project that needs to be completed to

20 a programme? We are not going to stop applying for

21 a certificate.

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22 O. Fair enough. Let's move on.

23 Now, I've talked to you about the submission to BD 24 process. I wonder if you can also assist me on what

happened on the site as to these two changes.

1 Then we can skip the brackets and go down:

2 "Referring to sketch no. SK-0033-001", what it says 3

is that:

4 "The L-shape bar cannot be fixed onto the couplers

5 in the D-wall (highlighted in yellow)." 6 But now can we stop here and go to the sketch

7 itself, which can be found at 2992. Maybe 9291 first.

8 First of all, we can see the sketch reference number

9 SK-0033-001 was exactly the sketch referred to in the

10 TQ; correct?

11 A. Yes.

12 Q. If we go down to the next page, 2992, we know actually

13 the previous sketch comes from this sketch; correct?

14

15 Q. And this sketch is appendix F of the PWD report that we

16 have discussed?

17 A. Okay.

18 Q. You agree?

19 A. Yes.

20 Q. And this sketch sets out the remedial proposal suggested

21 by Leighton and Atkins at the time; correct?

22 A. Yes.

25

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23 Q. If we go back to 2991, exactly the three queries are set

24 out in this sketch, then I think they are replicated

onto the query, TQ33.

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I don't need to trouble you with the first change

2 which has happened and recorded by Intrafor. What 3 I need your assistance is on the second change.

4 So if we may first go to B5/2986. We can see that 5

this is TQ33. We can see it's originated by -- we can go to the middle part, there's a table there. Can we go

down a little bit more? Yes. It says, "Originated by",

8 Johnson Luk, URS, dated 27 July 2015.

Can you help us on the company or firm URS, who are

10 they?

11 A. That's Benaim.

Q. What is their role, are they assisting Leighton or --

13 A. He was seconded to my team from Benaim to help --

14 Q. And their role is?

15 A. Design management.

16 Q. But they are under your supervision?

17 A. Yes.

18 Q. And it says reviewed by you.

19 A. Yes.

20 Q. On the same date.

21 If we go to the "Query" part, the query was:

22 "Referring to the sketch LCA-SK-000108", then the

23 PWD report which we have seen, "it is discovered that

24 there are locations where OTE slab length is smaller

25 than 1,200 millimetres ..." 1 We can see the first query:

> 2 "The L-shape bar cannot fix perfectly with the

3 couplers fixed in D-wall (highlighted in yellow and

green)."

5 We can see some highlighting, for example, on the

left-hand side, on the two horizontal rebars in the OTE

slab. That's one of the references in paragraph 1

8 below; right?

9 A. Mm-hmm.

10 Q. That's why I go back to -- you remember when I go

11 back -- to suggest to you -- when we were discussing the

12 TWD report, when I suggested to you there was no

13 through-bar proposal at that point of time, because you

14 see here it was still referring to fixing the couplers,

15 rebar onto the couplers at this point of time, even in

16 July 2015. That's my understanding, inferring from

17 documents. Do you have any comment?

18 A. Yes. I think your understanding is flawed because it

19 clearly shows in that earlier report that there is

20 a proposal for through-bars. So basically you are

21 denying that fact.

22 Q. I'm not sure -- which earlier report showing

23 through-bars?

24 A. 4B2.

Q. That is the three red lines?

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- A. Mm-hmm.
- 2 Q. I understand your position. You consider that shows
- 3 through-bars, which I do not necessarily disagree
- 4 because I don't have contemporaneous knowledge as you
- 5 do. I'm just inferring from documents.
- 6 But what I can infer from this document is that you
- 7 were still contemplating using couplers to fix the
- 8 L-shaped bar at the OTE slab --
- 9 A. Yes, correct.
- 10 Q. -- to the D-wall. That's why I am suggesting to you if
- 11 at that point in time, you know, back in May, you were
- 12 thinking about using through-bars, why would it still
- 13 have this coupler problem in July?
- 14 A. Because this is what was put into the 59A3 report.
- 15 Q. I'm not sure about your answer. Can I start again. I'm
- 16 just suggesting that it seems that from your
- 17 understanding at that point of time, ie around 27 July
- 18 2015, couplers would still be used as a connection
- 19 method instead of through-bars, between D-wall and OTE
- 20 slab, and that's why there was query number 1:
- 21 "The L-shape bar cannot fix perfectly with the 22 couplers ... in D-wall ..."
- 23 I can tell you this is not a trick question. I'm
- 24 merely trying to find out the chronology, and the change
- 25 of through-bar will come very soon but just not -- from
 - Page 162
 - my inference of documents, not in May and not before the 27th, of this query.
- 2
- 3 Do you have any comment here? Did I get something 4 terribly wrong here?
- 5
- A. Well, there was an idea to break down the D-wall and put
- through-bars in, but that was obviously retracted due to 6
- 7 the situation at the time and, you know, two months have
- 8 gone past. You know, maybe -- this was not 9
 - a significant issue at the time, so maybe the people
- 10 involved just didn't think to put it back into the
- 11

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- 12 Q. I see. But you were the reviewer of the TQ, and you set
- 13 out that others might have forgotten it. I am asking
- 14 you your personal knowledge because you have personal
- 15 involvement in this TQ.
- 16 According to your knowledge whether by 27 July
- 17 through-bar proposal was adopted, and I emphasise that
- 18 again it's not a trick question because according to
- 19 MTRC it is a few days after 27 July, then they agreed to
- 20 use through-bar. So I was just wondering, to sort out
- 21 the chronology, whether you would tend to agree with me
- 22 that at least by TQ33, you know, probably the proposal
- 23 was still adopting couplers?
- 24 A. Yes.
- Q. And of course, because we see that it actually refers to

- 1 the sketch coming from appendix F of TWD, Leighton and
- 2 Atkins, MTRC, all parties, were prepared to implement
- 3 the remedial proposal at least by 27 July, this time;
- 4
- 5 A. Yes, it seems like that date.
- 6 Q. Now, I promise this is not a trick question. That's why
- 7 I take you to Kit Chan's witness statement.
- 8 CHAIRMAN: It's not at all common, and it's not allowed, to
- 9 have a trick question. I see exactly what counsel is
- 10 saying, he's just trying to say it's not something he's
- 11 trying to trip you up on.
- 12 A. I understand.
- 13 MR CHEUK: If we go to B1/279, this is the witness statement
 - of Mr Kit Chan, the construction manager of MTRC. Okay?
- 15 You can take it from me this is Kit Chan's witness
- 16 statement.

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- If you look at paragraph 49, what he says is as
- 18 follows:
- 19 "Based on the discussions referred to above, the
 - construction management teams of both MTRC and Leighton
- 21 eventually decided in or around August 2015 to revert
- 22 back to the original construction detail of having two
- 23 layers of reinforcement bars with uniform spacing at the
- 24 top of the east diaphragm wall for the rest of the
- 25 panels in areas B and C ..."

- The reason why he said "revert back to the original 2 detail" was by reference to the BD accepted drawings
- 3 that we discussed at the very beginning; correct?
 - You do need to speak up this time.
 - A. Yes, but I don't think that's strictly true because the
- drawings you showed at the beginning was the original 6
- 7 detail and we couldn't possibly go back to the original
- 8
- 9 Q. Your comment probably is similar details; would that be
- 10 more accurate?
- 11 A. Similar inasmuch as the top rebar is concerned, but
- 12 there's still through-bars in the top of the wall, not
- 13 L-bars.
- 14 Q. Yes. We will go to the through-bars very soon.
 - Then we see, if we go down:
- "... which was possible because the concrete had 16
- 17 been cast for the east diaphragm wall by then and the
- 18 tremie pipes had since been abandoned, although Atkins
- 19 did not formalise any revisions to the working drawings
- 20 at the time as far as I am aware. The work sequence
- 21 which ensued on site was generally as follows".
- 22 We see the three steps. The first is trimming down,
- 23 450; the second is use one through-bar to replace three
- 24 fragments of reinforcement rebars; and then finally the
- 25 monolithic concreting. That's actually in line with

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- 1 your understanding of second change.
- 2 A. Yes.
- 3 Q. The only investigation I was going through with you is
- 4 really the timing. According to him, this happened in
- 5 around August 2015, which is slightly behind the TQ we
- 6 have seen, and the TQ refers to couplers. That's why
- 7 I was trying to pin down the chronology was that
- 8 probably soon after your TQ --
- 9 A. Yes.
- 10 Q. -- there was some form of agreement between MTRC and
- 11 Leighton in relation to how to carry out the second
- 12 change?
- 13 A. Okay.
- 14 Q. Would you agree to that or say this is wrong or any
- 15 comment?
- 16 A. It sounds right to me.
- 17 Q. If we go back to C27/20829 -- this is TQ34, which was
- issued by you and Johnson Luk on almost exactly the same
- 19 day as TQ33.
- 20 A. Yes.
- 21 Q. If we look at the content of this TQ, the next page,
- 22 20830 -- as I understand it, the problem is very simple.
- 23 The original intention, according to -- according to the
- intention after the first change, was to have the three
- 25 rows of rebars connected by couplers to diaphragm wall,
 - Dogo

- 1 that difficulty raised in respect of TQ34 was very
- 2 specific in relation to the panel EH74; correct?
- 3 A. That's correct.

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- 4 Q. And Kit Chan explained here:
- 5 "As the difficulties arising from EH74 also existed
 - in other panels [ie the mismatch of levels], after some
- 7 verbal discussions between my construction team and the
- 8 representatives of Leighton (who should have been
- 9 Mr Malcolm Plummer, Ian Rawsthorne and/or Mr Gary Chow
- but I cannot remember whom in particular I spoke to), it
- was agreed sometime between 28 July and 1 August 2015
- that the construction of the east diaphragm wall panels
- in area C1-2 should adopt the remedial proposal in
- response to TQ34 with the first row in the top layer
- being replaced with a through-bar. Between 1 August and
- 16 13 August 2015, the rebar fixing works for area C1-2
- were carried out in accordance with the remedial
- proposal in response to TQ34."
- 19 Again, I seek your comment: was that generally
- 20 correct or you disagree with that?
- 21 A. I wasn't involved in the discussion.
- 22 Q. But let's assume he's correct because so far we have not
- seen any witness dispute otherwise. One point
- 24 noteworthy here is that the change resulted in TQ33, ie
 - implementing the remedial proposal, is actually

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as shown in the diagram above, which you have T1, T3 and

- 2 T5; correct?
- 3 A. Correct.
- 4 Q. But what happened on site is that the levels of the
- 5 rebars did not match the levels of the three rows of
- 6 rebars within the diaphragm wall?
- 7 A. Well, it's the other way around. The couplers in the
- 8 diaphragm wall were lower than they needed to be.
- 9 Q. Yes, okay. But in essence there's a mismatch of levels?
- 10 A. Yes.
- 11 Q. So, in order to resolve this mismatch, the solution
- 12 proposed was to hack off -- as we see the three points
- 13 below:
- "Hack off concrete at D-wall", ie the green part.
- 15 And:
- "Extend T1 rebar on the far side of the D-wall", ie
- 17 use through-bar on the first row.
- 18 A. Yes.
- 19 Q. And then:
- "Cast the hacked-off portion and EWL slab in one
- 21 go."
- 22 A. Yes.
- 23 Q. Again, if I may then take you to Kit Chan's witness
- statement, back in bundle B1/277, paragraph 41 -- and
- one more question before I get to this paragraph is that

- 1 different from the change --
- 2 A. Sorry, can you repeat that? The first change, you mean?
- 3 Q. No. Let me repeat that. The change, the necessary
 - change, that's recorded in TQ33 --
- 5 A. Which change are you talking about?
- 6 Q. Ie, I'm referring to the general implementation of
 - remedial proposal arising from the first change, ie you
- 8 need to hack down 450 millimetres, replacing all the
- 9 couplers with the through-bars.
- 10 A. That's not mentioned in TQ33.
- 11 Q. That's not, but when I asked you -- you remember, at
- that point in time, parties, Leighton and MTRC,
- according to Kit Chan's witness statement I've just
- taken you to, around 1 August -- around early August
- 15 2015 -- they agreed to adopt the second change.
- 16 A. Yes.
- 17 Q. And the second change has three steps, we have just
- 18 seen.
- 19 A. Mm-hmm.
- 20 Q. What I am trying to distinguish with you is that those
- steps, three steps, were slightly different, actually,
- from the response in relation to EH74 as a result of
- TQ34, because TQ34 only involves T1, whereas others are
- in relation to all three rows of rebar.
- 25 A. Yes.

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- 1 Q. You remember that when we started, we talked about
- detail E in relation to BD's accepted drawing, which was
- 3 actually one of the many other variations of details
- 4 along the eastern panel walls?
- 5 A. Mm-hmm.
- 6 Q. So although we can generally talk about, you know, the
- 7 change or the second change on a general level, but on
- 8 the exact implementation level there would be
- 9 permutations, depending on the exact locations of the
- 10 panels?
- 11 A. I don't quite follow.
- 12 Q. Okay. What I'm coming to is that, for example, some
- panels will have some space reserved, and that's why, at
- the top of the diaphragm wall, there would not
- 15 necessarily be the top mat and the bottom mat. Is that
- in accordance with your recollection?
- 17 A. You mean they wouldn't necessarily be two rows of bars?
- 18 There could be --
- 19 Q. Two sections of rebars.
- 20 A. No, there'd always be two sections -- there would be
- 21 rebar at the top and the bottom of the slab, for sure.
- 22 Q. The reason I'm coming to this is that if we go to the
- recent joint statement of MTRC and Leighton, B19/25486,
- you can see some layout plans, and if you go to the
- 25 "Remark" box, you can see there are actually different
- 1 types of connection details. Although we use the word
- 2 collectively, call it "second change", but actually if
- 3 we look into those connection details in more detail, we
- 4 can find there are slightly variations from panel to
- 5 panel. That's really the point I'm driving at.
- 6 According to this construction drawing, you can see
- 7 that the green box is "Couplers connection at D-wall
- 8 top", and then the blue box is "Straight bar used at 1st
- 9 row of D-wall top". That's in response to TQ34 that we
- 10 have just discussed; correct?
- 11 A. Yes.
- 12 Q. And "Straight bar connection at D-wall top", which is
- the blank box, is the more general case which was the
- 14 general level implementation of, you know, the remedial
- proposal, hacking down, through-bars and monolithic
- 16 concreting; correct?
- 17 A. Yes.
- 18 Q. But what I'm saying is there are actually some other --
- apart from these two variations, there are other
- variations as well which are not necessarily covered by
- 21 these two variations.
- 22 If you need assistance -- actually, if you turn to
- the next page, 25487, and this is actually, as
- I understand, a drawing prepared by Leighton, so you can
- see, according to Leighton's own case now, there are at

- least, for example, four permutations of connection
- details: type 1, type 2, type 3 and type 4; do you see
- 3 that?
- 4 A. Yes.
- 5 COMMISSIONER HANSFORD: Why do you say "at least"?
- 6 MR CHEUK: The problem we have of course is that these are
- 7 all interim and subject to verification.
- 8 COMMISSIONER HANSFORD: Ah. So you are saying, "We know or
- 9 four, there may be more"?
- 10 MR CHEUK: There may be more. The point I am driving at is
- that although I use the shorthand "second change",
- 12 actually it's a plural. It involves many types of
- variations. That's why we might have a problem of
- 14 identification of details.
- 15 A. Sorry, no.
- 16 Q. That's what I'm driving at.
- 17 A. I don't really agree. There are mainly two different
- 18 types of change. One is with replacing the top bar
- only, the other one is replacing the top three bars.
- The other changes are for different reasons.
- 21 If you can look at type 4, there's an opening above
- that lower cut-off level of the D-wall.
- 23 Q. Yes.
- 24 A. So it's a different type of panel in the first place.
- 25 It's got a utility opening going through it. And the

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- 1 other one -- I think the other one is probably at the
- 2 location of a drainage channel, drainage culvert.
- 3 COMMISSIONER HANSFORD: Which one is that, sorry?
- 4 A. Type 3. If I can see the plan again, I can see where
- 5 that is.
- 6 Can you show the legend?
- 7 MR CHEUK: On the right-hand side, can the witness be shown
- 8 the legend on the right-hand side.
- 9 A. Okay. Then can I see the plan again, the layout plan?
- 10 You need to go up a bit.
- 11 COMMISSIONER HANSFORD: There must be a hard copy of this
- 12 available, is there?
- 13 MR CHEUK: Yes, can we have B19 hard copy given to the
- 14 witness
- 15 If you need the type 3 reference of panel C, you
- might need to go to 25488.
- 17 A. Yes, the panel means ...
- 18 Q. Along gridline 35, you can find some type 3.
- 19 A. 34 to 37?
- 20 Q. 35, yes.
- 21 A. I think this may have been a capping beam that was
- 22 introduced.
- 23 Q. And type 4 --
- 24 A. I need to know the panel numbers though.
- 25 Q. It's very small even on hard copy. But, Mr Buckland,

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- 1 I don't intend to, you know, do an identification
- 2 process here with you.
- 3 COMMISSIONER HANSFORD: No, but, Mr Cheuk, I think what
- 4 Mr Buckland has told us is there's essentially two types
- 5 of change; is that right?
- 6 A. Yes. The purpose for this type 3 and type 4 is
- 7 unrelated.
- 8 MR CHEUK: Yes. Can you explain a little bit more of type 3
- 9 and type 4?
- 10 A. Type 3 -- without knowing the actual panel numbers,
- I can't be certain, but I think it may have been in the
- location of the capping beam that was required because
- of insufficient ...
- 14 Q. If I try to assist you to identify the panel numbers.
- 15 You have seen, between gridlines 34 to 35, where you can
- 16 find type 3; is that right?
- 17 A. Mm-hmm.
- 18 Q. If you go back to 25485 -- you can blow it up a little
- 19 bit on the screen.
- 20 A. Mm-hmm.
- 21 Q. We can go to gridlines 34 to 35. We can find, I think,
- the panel number. Can we even blow it up a little bit?
- 23 Yes, I think it's clearer. Can we go even further
- a little bit, I wonder? We can see EM86, 87 and 88.
- Would that assist you?

1 situation where there was a utility space?

- 2 A. Type 4 is related to a similar problem but it's not
 - exactly the same. There were U-bars in the top section
- 4 of this but they were a different size, so we had to do
- 5 a remedial for this, which involved replacing with
- 6 L-bars.

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- 7 Q. Yes. If we go to type 1, we blow it up a little bit,
- 8 this is the response to TQ33 or what I call -- the
- 9 general case of second change is type 1.
- 10 A. Mm-hmm.
- 11 Q. Essentially all the top rows of rebars were replaced
- with through-bars, and there's hack-off and monolithic
- 13 concreting?
- 14 A. Yes.
- 15 Q. And type 2 is the response to TQ34, where only the first
- 16 row of rebar was changed to through-bar, but the other
- second row or third row remained couplers?
- 18 A. Mm-hmm.
- 19 Q. Thank you.
- 20 A. But I wouldn't say that type 1 is only a result of TQ33.
- It's a result of a combination of the two.
- 22 Q. I understand your position. That's probably a result of
- both TQs and the General Conditions at the time?
- 24 A. Yes.
- 25 Q. According to Kit Chan's evidence, there was some

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- 1 A. I'm pretty sure that was a capping beam related to
- 2 substandard founding conditions for the panels, so the
- 3 load had to be spread across a greater number of panels.
- 4 So it has nothing to do with the change that we're
- 5 talking about.
- 6 CHAIRMAN: Substandard founding conditions meaning it wasn't
- 7 sitting on a solid base?
- 8 A. Yes.
- 9 CHAIRMAN: So you needed to spread the load a little there?
- 10 A. That's right, yes. And you can see these are -- the EM
- means missed panel, which means so it's not sitting on
- rock, so we had to rely on the EH85, EH87, EH89 to
- 13 spread the load.
- 14 MR CHEUK: If we go back to 25487, if we blow up type 3
- a little bit, we can see it does involve concrete to be
- hacked off and cast with slab; right? Your evidence, as
- 17 I understand it, is that this what I call variation is
- not something to do with TQ33 or TQ34; it's due to the
- 19 capping beam?
- 20 A. Yes, I don't think it is. Yes. I'm not certain but
- 21 without --
- 22 Q. To the best of your knowledge?
- 23 A. Yes.
- 24 Q. Can you also assist us on type 4. What has it to do --
- or is it just a variation of type 1 but applied to the

- 1 agreement between MTRC and Leighton.
- 2 A. Yes.

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- 3 Q. Thank you, because we, through this very tedious
 - exercise, have traced through the chronology of what
- 5 I call the second change.
 - So if I may now just quickly move to another area.
- 7 If we go to H10/4563. This is MTRC's letter to the BD,
- 8 submitting site supervision plan, and if we go to 4572,
- 9 we find your name as AS representative of "Mr Brewster".
- 10 A. Yes.
- 11 Q. If we -- again, you were aware of this fact, of course,
- 12 I assume?
- 13 A. Yes.
- 14 Q. If we go, similarly, in the same bundle to 4512, again
- we find another site supervision plan, in respect of
- a different area. Again, we find you were appointed,
- 17 named as Mr Brewster's representative; okay?
- 18 A. (Nodded head).
- 19 Q. You can take it from me this is in respect of area C2,
 - and the first site supervision plan is in respect of
- area B; okay? You can take it from me.
- 22 A. Okay.

- 23 Q. Then we go to the third site supervision plan, 4548.
- This is in respect of area C3. We see the site varies.
- 25 Betty Ng was appointed as the representative of

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- 1 Mr Brewster in respect of this area?
- 2 A. Yes.
- 3 Q. But Betty Ng actually reported to you at the time;
- 4 correct?
- 5 A. Yes.
- 6 Q. And we have heard Mr Brewster's evidence and my
- 7 understanding is the effect of his evidence is that he
- 8 relied on the representative to tell him any important
- 9 issue on the site, which includes you, of course;
- 10 correct?
- 11 A. Ah, I'm an important issue on the site, yes.
- 12 Q. How often do you go to the site, can you tell us?
- 13 A. At least once a week, but more often if there's, like,
- temporary works issues or if it was required of me on
- the SSP to inspect more frequently.
- 16 Q. And did you tell him what I call the first change?
- 17 A. No, I didn't.
- 18 Q. The second change?
- 19 A. No.
- 20 Q. Or what -- you're aware of NCR, the bar cutting
- 21 incident, NCR157?
- 22 A. I wasn't at the time, no.
- 23 Q. You weren't aware at the time?
- 24 A. No.
- 25 Q. And obviously that's why you didn't tell him?

- 1 around with him on site, for example, when there was
- 2 cracking in existing columns that had to be
- 3 investigated.
- 4 Q. And when BD raised the concern about the first change
- and used the word cover-up for two years as we've gone
- 6 through the note, you still didn't think it's
- 7 a sufficiently important issue to be raised to
- 8 Mr Brewster?
- 9 A. At what point?
- 10 Q. During -- when you are aware of the first change and11 BD's comments.
- 12 A. I told you just now, it was a work in progress. It's
- 13 not something that just suddenly happened. There were
 - very good reasons for why that change occurred, and then
- it was just unfortunate that it hadn't been picked up
- until -- hadn't been picked up in the design
- justification until we got to the as-built drawing
- stage. But we had had discussions with Atkins and they
- 19 had given us a message that U-bars weren't required, for
- 20 example, so that wasn't something that needed to be
- 21 reported.

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- 22 MR WILKEN: I'm sure I will be corrected if I'm wrong but
- 23 the question my learned friend put about BD using the
- word "cover-up" was in a document that this witness
 - didn't see at that time.

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- A. Ah, yes.
- 2 Q. Probably it's because it's 5 o'clock.
- Well, I'll soldier on, because -- sir, I do have
- 4 some more questions. I think I can finish within ten
- 5 past five, if I may have your indulgence. I think I can
- 6 finish my part with him today.
- 7 CHAIRMAN: Yes. I think we do need to be more flexible now.
- 8 That's excellent.
- 9 MR CHEUK: If we may carry on for a few more minutes.
- Why didn't you tell him the first change or second change?
- 11 change?
- 12 A. The first change started in about June of 2013. It was
- a work in progress. It was a discussion between myself
- and Atkins' designers and the members of the
- 15 construction team. It wasn't an NCR -- it wasn't
- something that would have occurred to me to tell
- 17 Mr Brewster.
- $18~~{
 m Q.~How~did~you~decide~the~level~of~importance~which~would}$
- 19 prompt you to tell Mr Brewster anything on site?
- 20 A. Well, if it's a non-conformance or an issue on site that
- 21 was beyond my own knowledge or scope or understanding of
- the BD process, then I would involve Mr Brewster, but
- otherwise it was just -- it was things we would take in
- our stride. I mean, he came down a couple of times when
- 25 there were serious incidents happened, and I walked

- 1 A. That's correct.
- 2 MR CHEUK: That's probably correct, but I think he was
- 3 aware, in terms of my question, of the concern raised by
- 4 BD at the material time.
- 5 MR WILKEN: It was the specific phrasing of "cover-up" that
 - was concerning me. There's a difference between being
- 7 aware that someone is concerned and then being aware of
- 8 a specific phrase, and of course we are all conscious
- 9 that there are people outside listening and taking notes
- 10 for the media.
- 11 MR CHEUK: No problem.
- 12 CHAIRMAN: Yes. Were you aware of a letter that said
- anything about, in inverted commas, "cover-up"?
- 14 A. No. Everything was above board. As soon as we knew
- there was an issue, then we dealt with it through the
- 16 proper channels.
- 17 MR CHEUK: I go to a slightly different topic, about the as-built records.
- Do you accept that Leighton did not prepare the
 - as-built records for the connection details that raised
- 21 concern in the joint statement of MTRC and Leighton that
- we have just seen, you know, the diagrams about what was
- constructed there; we don't have contemporaneous records
- of the construction details there prepared by Leighton?
- 25 A. Sorry, can you rephrase your question?

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- 1 Q. Sorry. Let me rephrase.
- 2 Do you accept that Leighton did not prepare
- 3 contemporaneous records of what was constructed in the
- 4 east diaphragm wall?
- 5 A. You mean do I accept -- do I think it's --
- 6 Q. There was no such record?
- 7 A. -- okay, or do I think it happened, or what? I don't
- 8 understand what the question is.
- 9 Q. Do you know -- do you agree or disagree that there was
- 10 no contemporaneous record for the construction details
- in the east diaphragm wall?
- 12 A. I disagree, because the site engineers took hundreds and
- thousands of photos. That is contemporaneous records.
- 14 Q. But for the purpose of preparing as-built drawings to be
- submitted to BD, you need to exactly set out the
- drawings instead of relying on photos.
- 17 A. Yes, but in my experience, producing an as-built drawing
- doesn't usually go to the level of measuring exactly the
- dimensions of every coupler, the exact spacing. You
- know, if it's been constructed in accordance with the
- drawings, then it's taken to be as per the drawings on
- the as-built. Unless there's a big discrepancy, then it
- won't be shown.

A. The joint statement?

A. I had some involvement, yes.

A. Yeah, at this time. Yes.

to review --

contract?

would have done it.

A. That what was required?

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Q. Yes.

The only reason it's going into so much detail now is because this issue has blown up, out of proportion.

that we have just gone through in the large --

was being constructed in those panels?

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Q. You had some involvement. Certainly you are aware that

we can now only rely on some site photos to tell what

way -- if Leighton had prepared the contemporaneous

as-built drawings or records at the time of construction

instead of we now go through these site photos in order

Q. Do you think it is more satisfactory -- I'll put it this

A. If it had been known to be required to that level of

detail, and it was stated in the contract, then yes, we

knowledge, you didn't know it was required in the

Q. As-built drawings should be provided to MTRC?

experience, the level of detail of as-built drawings

doesn't go to that extreme. Unless there's a major out

A. Yes, I know it's required, but as I said, in my

Q. And, to your knowledge, is that your evidence -- to your

- of tolerance or things have been constructed quite
- 2 differently from the drawings, then there's no need to
- do such in-depth contemporaneous records.
- 4 CHAIRMAN: Sorry, just to help me -- the plans themselves
- 5 would require the measurements and dimensions and that
- 6 kind of thing. If you make changes, wouldn't the
- 7 changes that you made, depending on the circumstances,
- 8 require similar dimensions and specifications?
- 9 A. Yes, but the kind of change we're talking about is
- 10 having a construction joint in a different place from
- the original drawing and having continuous bars instead
- of couplers. That is not something that is necessary to
- see on an as-built drawing, in general. The function is
- 14 still the same.
- 15 MR CHEUK: So, according to your understanding, actually
- it's not necessary to prepare what you call -- in the
- 17 B19 file, that level of detail of as-built drawings,
- 18 according to your experience --
- 19 A. Yes, in my experience. BD may have a different view on
- that, but in my experience, generally you do a final
- amendment drawing and you just convert the final
- amendment drawing into the as-built, unless there are
- 23 significant changes.
- $\,$ 24 $\,$ Q. But if you want to convert the amendment drawings to the
 - as-built, you still need to have contemporaneous records

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Q. Were you involved in the preparation of the joint plan

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- in order to do the process; correct?
- 2 A. Yes, but most of the changes were dealt with at the time
- and incorporated into the submissions. For example, the
- 4 multiple layers of couplers, there are, you know,
- 5 several design justification reports, justifying the
- 6 additional row of couplers, where they've had to be
- 7 moved because of the tremie pipe.
- 8 COMMISSIONER HANSFORD: Sorry, are you saying and
- 9 consequently they are in the amended drawings?
- 10 A. Ye
- 11 COMMISSIONER HANSFORD: And therefore the amended drawings
- by and large, are as-built?
- 13 A. Yes.
- 14 COMMISSIONER HANSFORD: That's what you are telling us.
- 15 Thank you.
- 16 MR CHEUK: Can I just move to the last topic, the role of
- 17 Atkins. We have talked about the role of Atkins A and
- 18 Atkins B. According to the evidence of Mr Andy Leung of
- 19 MTRC, he says -- you can take it from me, from his
- 20 witness statement -- he always insisted there should be
- 21 a separation between team A serving MTRC and team B
- 22 serving Leighton; okay?
- And you, in your witness statement, refer to various
- emails. I don't know if you recall. I can take you to
- your witness statement. It's in the reply witness

46 (Pages 181 to 184)

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- statement bundle, if we can go to the reply witness 1
- 2 bundle
- 3 COMMISSIONER HANSFORD: Is it C24023?
- 4 MR CHEUK: That's correct, Professor. You are absolutely
- 5 right.
- 6 At paragraph 14, here -- this is your evidence -- in
- 7 reply to the separation point raised by Mr Andy Leung of
- 8 MTRC, and then you refer to several emails which are
- 9 exhibited at BB-4; okay?
- 10 But I've gone through your emails. I don't find
- 11 anything saying MTRC approved the lack of separation
- 12 between the two teams. What is your response to that?
- 13 Because now we know, of course, for example, Mr McCrae
- 14 was the head of team A and the head of team B at the
- 15 same time, and there's substantial overlap between the
- 16 two teams.
- 17 A. Mm-hmm.
- 18 Q. So why did Leighton allow this to happen at the relevant
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- 20 A. Why did Leighton allow that to happen?
- 21 Q. Yes.

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- 22 A. Leighton employed Atkins as our consultant. It's not up
- 23 to us to allow a non-separation to occur.

Leighton employed Atkins --

their team

DDC --

A. Mm-hmm.

24 Q. Let's put it this way. MTRC employed Atkins team A in

A. Can you refer to it as DDC, because that's the name of

Q. -- in the first place, and it was subsequently that

that, ie using the same firm to serve him?

and continued to be in the DDC team.

Q. Okay. That's more in accordance with your understanding

Leighton also employed Atkins as its temporary works

design consultant subsequently. So why did Leighton do

A. The main purpose was because we expected there would be

a synergy between our design and the DDC's design

checking, because they are effectively the same team,

and they have all their history and knowledge of the job

already, and we did actually talk to MTR about whether

separation, that would be impossible because there were

people working for our team who had been in the DDC team

between the RGE and RSE, because they represented BD for

MTR, so they were required to have, say, an independent

review of the submissions. So, no matter what came out

they thought it was acceptable and they agreed it was

acceptable. But if they expected some kind of hard

The only separation that I expected to exist was

of the terminology. Okay, MTRC employed Atkins as the

25 the first place; correct? And then subsequently 1 of our Atkins team and MTR's Atkins team, it was

- 2 reviewed by the RGE and RSE before going to BD.
- 3 Q. Yes. And Mr Andy Leung mentions the interaction between
- 4 Leighton, Atkins and MTRC as follows, if I may go
- 5 through it with you.
- 6 For example, there's a contractor's proposal, and it
- 7 will come from Leighton after its consultation with
- 8 Atkins team B; okay?
- 9 A. Mm-hmm.
- 10 Q. And then the proposal would go to construction
- 11 management team of MTRC, which was, as I understand it,
- 12 headed by Mr Kit Chan?
- 13 A. Yes.
- 14 Q. And if he agrees, then the proposal would go to the
- 15 design management team of MTRC --
- 16 A. Mm-hmm.
- 17 Q. -- which was headed by Mr Andy Leung himself.
- 18 A. Yes.
- Q. Then the proposal would go to -- he said he would 19
- 20 consult Atkins' team A?
- 21 A. (Nodded head).
- 22 Q. So what strikes me as slightly uncomfortable is that the
- 23 proposal originates from Atkins' team B and then goes in
- 24 a full circle back to Atkins' team A to review it. So
 - was this a matter of concern to Leighton about any

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potential conflict of interest at the relevant time?

- A. No. The only concern we had was if they gave us
- 3 proposals that hadn't first been agreed with their
- 4 so-called team A, because any proposal we got from them
- 5 we expected to be coming from a point of expertise with
- 6 respect to the history of the project.
- 7 MR CHEUK: Sir, Professor, I think it's time for me to sit
- 8 down. I have asked all my questions I need and I thank
- 9 you for your indulgence.
- 10 CHAIRMAN: You have finished your questions?
- 11 MR CHEUK: Yes.
- 12 CHAIRMAN: All right. Good.
- 13 Just so we have an indication for tomorrow --
- 14 Mr Khaw, will there be questions?
- 15 MR KHAW: Yes, there will be some questions from Mr Chow.
- CHAIRMAN: And at the back? 16
- 17 MR SO: No questions.
- CHAIRMAN: Mr Boulding?
- 19 MR BOULDING: It rather depends on the answers tomorrow.
- CHAIRMAN: Of course. I appreciate that. 20
- 21 MR CONNOR: I'm in a similar position, sir.
- 22 CHAIRMAN: Good. Thank you very much indeed.
 - Good. There will be some questions tomorrow, and
- 24 the position is that when you're in the middle of giving
- 25 your evidence that you're not entitled to discuss that

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1	evidence with any other person. Okay? You're not	
2	entitled to take advice or explain what's happening or	
3	anything else like that.	
4	When you've finished your evidence entirely, then	
5	you can discuss it with anybody, including your lawyers,	
6	but until then no. Okay?	
7	WITNESS: Okay.	
8	CHAIRMAN: So you have to keep mum overnight. Good. Thank	
9	you very much indeed.	
10	(5.10 pm)	
11	(The hearing adjourned until 10.00 am the following day)	
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