1 Wednesday, 12 December 2018 2 (10.01 am)3 MR BOULDING: Good morning, Chairman. Good morning, 4 Professor. Before I call MTR's last witness, Prof Ma, who is 5 sitting in the witness box now, counsel to the Inquiry 6 has suggested that it might be a good idea if I update 7 the Commission on the issue of opening up. 8 9 CHAIRMAN: Thank you. 10 MR BOULDING: As you will have seen, it has started, but in view of the tight time schedule of the Commission of 11 12 Inquiry, government has requested, and MTR has agreed, to examine the opening-up work programme to identify 13 possible acceleration. Government wants to see whether 14 15 or not MTR can reduce the scheduled period of 16 weeks down to 12 weeks. 16 17 I'm told, and I inform you, that by increasing the 18 number of concurrent working teams, it may be possible 19 to accelerate the work and compress the work duration 20 into 12 weeks. 21 However, and as you will probably realise, there are 22 major uncertainties and risks in this accelerated 23 programme, because of course the work has only just 24 started and the programme includes basic assumptions which have not yet been verified, including the speed of 25

1 the work and the extent of the practical difficulties 2 that might be encountered.

> As a result, whilst the MTR cannot commit to the 12-week duration, I am instructed to say that MTR will use its very best endeavours to accelerate the work and to update the Commission with all interim results by the end of January 2019.

With this in mind, MTR will prioritise the opening-up work of the platform on the East West Corridor, with the intention to complete as much of the EWL platform work as is reasonably practicable by the end of January 2019.

Obviously, after the opening-up work of the first few locations has taken place, there will be a better understanding of the speed of the work and the extent of the practical difficulties, but of course, as always, MTR will update the accelerated programme to allow a better estimate of the work duration and keep you informed, sir.

I hope that's helpful. As always, MTR are here to provide all assistance it possibly can to the Commission.

23 CHAIRMAN: Thank you, Mr Boulding. Thank you very much indeed. That's welcome news. Thank you.

MR BOULDING: I thought you might say that.

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- 1 Against that background, Chairman and Professor, if
- I could call MTR's last witness, Prof Ma.
- 3 PROF MA SI HANG, FREDERICK (sworn)
- 4 Examination-in-chief by MR BOULDING
- 5 Q. You've given your full name to the Commission, and we
- 6 know that you're the non-executive chairman of MTR. You
- 7 have produced one witness statement for the Commission's
- 8 assistance, and I hope we will find the first page at
- 9 B104.
- 10 Professor, do I there see the first page of your
- 11 witness statement?
- 12 A. Yes.
- 13 Q. If we go on to page B114, I hope we will find your
- 14 signature. Is that your signature under the date of
- 15 13 September, Professor?
- 16 A. Yes, Mr Boulding.
- 17 Q. Thank you very much.
- 18 I understand that you'd like to make a small
- 19 correction to that statement. I hope we find the
- 20 corrigendum at bundle B, page 114.1. Aha, good. Is
- that the correction you would like to make, Professor?
- 22 A. Yes, sir.
- 23 Q. Subject to that correction, are the contents of that
- 24 statement true to the best of your knowledge and belief?
- 25 A. Absolutely, sir.

- 1 Q. Excellent. Now, Professor, what's going to happen now
- is that you will almost certainly be asked a few
- 3 questions by my learned friend Mr Pennicott for the
- 4 Commission of Inquiry. There are various lawyers
- 5 representing other interested parties in the room, and
- 6 they have the option of asking you questions. The
- 7 Chairman and the professor can ask you questions at any
- 8 time they consider appropriate. And it may be the case
- 9 that I ask you a few questions at the end of your
- 10 evidence. Do you understand?
- 11 A. I understand. Thank you.
- 12 MR BOULDING: Splendid. Please sit there.
- 13 Examination by MR PENNICOTT
- 14 MR PENNICOTT: Good morning, Prof Ma.
- 15 A. Good morning, Mr Pennicott.
- 16 Q. Can I first of all say thank you very much for coming
- 17 along to give evidence to the Commission this morning.
- 18 A. Thank you.
- 19 Q. As Mr Boulding has indicated, I get to ask you a few
- questions first, and I don't think I'm going to be
- 21 terribly long, but I just have a few matters I want to
- discuss with you.
- 23 Prof Ma, I understand that way back in time you
- 24 were -- at the start of your career, you were in the
- 25 banking and finance industry; is that right?

- 1 A. Indeed.
- 2 Q. And you worked for Chase Manhattan Bank back in the
- 3 1970s, both in Hong Kong and in New York?
- 4 A. 1973, as a matter of record.
- 5 Q. You also worked for PCCW for a number of years, as
- 6 I understand it?
- 7 A. Only one year.
- 8 Q. Against all that financial background, in 2002 to 2007
- 9 you were the Secretary for Financial Services and the
- 10 Treasury in the Hong Kong government?
- 11 A. Correct.
- 12 Q. It was during that period I think you had your first
- involvement with the MTR, when you were a non-executive
- 14 director whilst you were the Secretary?
- 15 A. Yes.
- 16 Q. Then, in 2007-2008, you were the Secretary for Commerce
- and Economic Development of the government?
- 18 A. Indeed.
- 19 Q. Then a little bit of time out, which we don't need to
- 20 consider, but then, as I understand it, in 2013 you
- 21 became an independent non-executive director of MTR?
- 22 A. Correct.
- Q. As we know, on 1 January 2016, you became the chairman?
- 24 A. Non-executive chairman.
- 25 Q. Since 2013, when you were the independent non-executive

- director, up until now, effectively, the MTR has been
 involved in a number of substantial projects, including
 the XRL, the South Island Line, the West Island Line,
 the Kwun Tong Line Extension, perhaps other projects
 worldwide, as well as what they're doing in Hong Kong,
 and of course the SCL project, with which we are
 primarily, indeed exclusively, concerned.
- 8 A. (Nodded head).

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- 9 Q. Just taking the SCL project itself, Prof Ma, and leaving
 10 aside the last six months or so, what part of your
 11 working week might be devoted to the SCL project?
- 12 A. Maybe with the permission of the Chairman and the
 13 professor, I need to explain a little bit about our
 14 corporate governance.

Being the non-executive chairman, I'm not required, unlike the chief executive officer, to go to work every day. That is the beauty of being a non-executive chairman. However, I have to of course chair the board, which meets seven times a year. I have to attend subcommittees of which I'm a member. I'm a member of the remuneration committee, I'm a member of -- I'm actually the chairman of the corporate responsibility committee, and I sit on the nomination committee as well. So I do attend meetings on a regular basis.

submits reports to the board. But, other than the

submission of reports, I get to meet him every month, at

least. But we regularly, as you can see from my

statement, talk to each other through WhatsApp or phone,

you know, so that we know what is going on in the

company.

As you correctly said, we have so many projects going on, so I obviously keep an eye on what is going on. Until this SCL Hung Hom case really get reported in the media, you know, we just get regular reports, and as if it is one of the projects that has been going well.

All our projects, particularly the one you mention,

Mr Pennicott, have been completed successfully,

including the Express Rail, which was opened in

September. We have successfully completed the

Ho Man Tin Extension and also the South Island Line.

Those three projects were completed during my tenure as chairman.

So SCL, just like any project, gets our attention, but we have a committee called the CWC, capital works committee, that overlooks the cost as well as the timing of the project. This was created following the 2014 IBC which the Chairman and Professor of aware of and familiar with. Back in 2014, we created, as a result of the investigation, CWC, capital works committee, chaired

- by Dr Allan Wong, and the formation of a risk committee
- as well to overlook all these risks and projects. For
- 3 CWC, it is their duty to make sure that projects are
- 4 completed on time and within the budget.
- 5 Q. All right. So can I just summarise, then, Prof Ma, up
- 6 until this year, the SCL project was no more prominent
- 7 or less prominent than any of the other projects, so far
- 8 as you were concerned, from your perspective?
- 9 A. Absolutely. You know, we pay attention to all projects.
- 10 Q. Yes.
- 11 A. But I want the Chairman and Professor to realise, as
- 12 non-executive chairman, there are limitations as to what
- I can do and I'm told.
- 14 Q. Yes, indeed.
- 15 A. I have to rely on my colleagues, to a very, very large
- 16 extent --
- 17 Q. Of course.
- 18 A. -- about the project itself, and I have to say that I do
- 19 carry out site visits with the CEO, I've done it a few
- times, and one of them was SCL.
- Q. We are not just concerned with SCL. We are more
- 22 specifically concerned with a contract called
- 23 contract 1112.
- 24 A. Right.
- 25 Q. I suspect that given your previous answer to me, before

- 1 this year there was no sense in which any issues on
- 2 contract 1112 had been brought to your specific
- 3 attention?
- 4 A. No, not at all.
- 5 Q. However, turning to the events of this year, things
- 6 changed somewhat.
- 7 A. Mmm.
- 8 Q. As you mention in paragraph 16 of your witness
- 9 statement -- I don't think we need to look at it but you
- 10 can if you wish -- the MTR, once certain media interest
- 11 was shown in the Hung Hom Station contract 1112 project,
- the government asked MTR to carry out a load test, and
- I think that came to your attention, Prof Ma?
- 14 A. Yes. As a matter of fact, Mr Pennicott, you can see in
- my statement that paragraph 13, Chairman and Professor,
- 16 that I was actually alerted to the media report at the
- 17 end of May.
- 18 O. Yes.
- 19 A. I still remember our corporate affairs director called
- 20 me and said that there was a report in the media about
- 21 Hung Hom, and the project director, Dr Philco Wong, felt
- that it was a totally false allegation, so he was going
- 23 to lead some of his colleagues down to the site and
- 24 clarify the matter. I always promote communication and
- 25 transparency in the company, so I said, "That's a great

- idea." Of course, I didn't know anything about, you
- 2 know, what the details are, but I thought that for
- 3 transparency of the company it is a very good idea to
- 4 clarify the matter ASAP. So hence Dr Philco Wong and
- 5 his colleagues went to the site and showed to the media
- 6 what he felt at that time was, you know, the real
- 7 situation, not as per the media reports said.
- 8 Q. You mentioned in that answer the word "perception".
- 9 A. Mm-hmm.
- 10 Q. And in paragraph 17 of your witness statement, which
- I would like you to look at, please, in the first
- sentence, you refer to "At the meeting" -- and I think
- 13 that was the special board meeting that you mention in
- the previous paragraph. You say:
- 15 "At the meeting I remarked that a perception about
- 16 a lack of transparency in terms of both internal
- 17 reporting and external reporting to the government had
- 18 become a matter of public concern."
- 19 Now, just focusing on the first part of that
- 20 sentence, "a perception about a lack of transparency in
- 21 terms of both internal reporting" -- how had you reached
- 22 the view that there was this perception of lack of
- transparency so far as internal reporting is concerned,

A Court Reporting Transcript by Epig

24 Prof Ma?

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25 A. Well, I think at that time there was a lot of media

- 1 reporting about the case, you know, so I said it was
- a perception, it is a perception in the public arena.
- 4 external reporting to the government was not good.
- 5 I was merely saying that because the media were saying,
- 6 "Does the government know about this?", but I know for
- 7 a fact, during my 2014 IBC report, that we have a very
- 8 structured reporting to the government, including to the
- 9 RDO, you know, and they meet regularly on projects.
- 10 So it was purely a perception.
- 11 Q. Yes, because that was going to be my next question. It
- was a perception, but in your view, as I understand your
- 13 last answer, you don't believe it was a true and
- 14 accurate perception?
- 15 A. Absolutely not, because the MTRC work very well with the
- 16 government. You know, if I remember correctly, in our
- 17 IBC report published in 2014, I remember we studied the
- 18 structure of the reporting, of which the Chairman and
- 19 the professor know very well, that we have very regular
- 20 meeting with the government, reporting to the
- government. And I still remember very well, in the
- report we submitted to the board and made public, we
- actually mention the fact that there are check the
- 24 checkers. That really sticks into my mind very much.
- 25 Check the checkers. The government has appointed

- 1 outside consultant to check our work.
- 2 O. Yes.
- 3 A. So to me, our reporting system, at least at that
- 4 juncture, was very, very thorough and shouldn't have any
- 5 problem. That was my impression as the non-executive
- 6 chairman. I didn't attend, of course, any of these
- 7 meetings. I can only go by what the paper told me.
- 8 Q. So the perception was media-generated, but you don't
- 9 believe it was a correct perception?
- 10 A. No, absolutely.
- 11 Q. You say in the last sentence of paragraph 17 of your
- 12 witness statement:
- 13 "Through both a stand-up media session and a radio
- programme, I also urged LCAL [that's Leighton] to
- announce what it knew to the public."
- 16 A. Yes.
- 17 Q. When you say "announce what it knew to the public",
- I assume you mean go to the media?
- 19 A. If you recall, Mr Pennicott, during that period, MTR was
- 20 under tremendous pressure from the public, but my
- 21 understanding is that we are the employer of Leighton.
- 22 In other words, Leighton is the guy who did the work,
- 23 not MTR. Our job was merely supervising.
- So, that being the case, you need the party that
- does the work to tell the public what exactly happened.

- 1 That was my understanding. So, when Leighton chose not
- 2 to say anything to the public, the pressure was on MTR.
- 3 Q. Did it trouble you that Leighton didn't go to the media
- 4 or didn't go public?
- 5 A. I honestly don't think it was a responsible act,
- 6 particularly for a public project like this. This is
- 7 a major public project in Hong Kong. I felt that, as
- 8 a responsible contractor, Leighton should say something,
- 9 but I was told by my CEO -- I pressured the CEO to speak
- 10 to Leighton, and he assured me that he did, and in his
- 11 statement he also mentioned he did. I did not talk to
- 12 Leighton myself. It was through the CEO. And I was
- frustrated, just like the CEO, about the fact that
- 14 Leighton did not say a word in the public arena.
- 15 Q. Did you draw any conclusions from Leighton's apparent
- lack of willingness to go public?
- 17 A. I was told it's their company policy, but because
- I don't know their company policy, I have to respect the
- 19 company's policy. Having said that, though, as I said
- 20 earlier, I didn't think it was a very responsible act of
- 21 a contractor on a major public work project like this,
- to keep silent throughout this period, until the
- 23 Commission.

- Q. All right. Now, in your witness statement, you make
- reference to the report that was submitted to government

on 15 June this year. You say in paragraph 21 of your statement:

"In the morning of 15 June [this year], I met with the Honourable Abraham Shek Lai Him, an independent non-executive director of MTR, in preparation for the press conference to be held in the afternoon [on that day]. Among others, Aidan Rooney ... and Lincoln Leong also participated in the meeting. Specifically, the Honourable Abraham Shek Lai Him and I [that is you, Prof Ma] emphasised to Aidan Rooney the report must be accurate and correct, and I asked him if the projects team had evidence to support the matters stated in the report."

You go on to say:

"I was assured by Aidan Rooney that the matters stated in the report, including as regards the number of couplers referred to, were correct and supported by documentary evidence. I had no reason to doubt what he told me."

Did you specifically mention the couplers yourself, or was that just part of Mr Rooney's answer to your general question that you hoped the report was accurate and it was supported by documents?

A. In the report, it mentioned the number 23,500 couplers.

I specifically asked Mr Rooney that number, if that

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number is correct, and is it supported by documentary evidence. I still remember Mr Rooney said, "Yes", and I said, "Show me the record." He said to me that the record was kept at the site and there were lots of them, tonnes of documents. So I said, "I need to see something." He did produce a spreadsheet. It's a huge spreadsheet. I was looking for that spreadsheet in the office yesterday and couldn't find it. But it's a big spreadsheet, like this size (demonstrating), with lots of signatures, with the 32 bays on it. I took a look, obviously, as I said, not being involved in the day-to-day project management, and I have to have trust in my colleague. I looked at it, I said, "Fine, but you ought to produce some document at the media conference that evening to show to the media that indeed this number is accurate and indeed that we have documentary evidence."

I remember vividly he mentioned about hold point.

In other words, if everything was checked, that concrete would be poured. I obviously, as I said, have to trust what my colleague told me, and that is why subsequently, when I was told about the fact that the number of couplers, because of the design change, is different from what was given to the government, I was -- I think Dr Philco Wong used the word "surprised" yesterday --

- I would even go as far as "shocked", Mr Chairman and
- 2 Professor, because I did ask the question which is
- 3 actually something that, you know, not even within my
- 4 duty, almost -- you can see that I've gone out of my way
- 5 to do the due diligence -- because having been
- a minister with the government I really think that
- 7 accuracy of any report to the government and to the
- 8 public must be 100 per cent accurate.
- 9 Q. Can I just ask you about this spreadsheet. Was it just
- one sheet of paper, Prof Ma?
- 11 A. He showed me one sheet of paper.
- 12 Q. Was it an A3 sheet?
- 13 A. It was quite big, I remember. It was quite big.
- 14 Q. It's not a document that immediately springs to my mind.
- 15 Mind you, we've looked at lots of documents over the
- last few weeks.
- 17 A. There were lots of documents. I was looking for the
- 18 same document yesterday.
- 19 Q. Where were you when he showed it to you?
- 20 A. I was in the function room in the International Finance
- 21 Centre, our town office --
- 22 Q. This was prior to the press conference?
- 23 A. Prior to the press conference. The press conference was
- held in the late afternoon, and we had this preparatory
- 25 meeting in the morning. I invited Abraham Shek to join,

- because he is an INED of the company, he is a member of,
- I believe, the CWC, and also he has lots of experience
- 3 in this sort of exercise, being chairman of the PAC in
- 4 LegCo. So that is why, among all the INEDs, he was
- 5 invited.
- 6 Q. Right. The fact that you asked Mr Rooney specifically
- 7 about the couplers tells me two things: one, you must
- 8 have read the report?
- 9 A. Yes.
- 10 Q. Two, that you must have realised that the couplers were
- 11 an important issue?
- 12 A. First of all, to answer your second question first,
- 13 couplers was a very important issue because the media
- report talked about couplers almost every day, so it
- 15 would be, you know, rather naive not to believe that
- that is a very important subject.
- 17 But more importantly, I appreciate that for the
- 18 general public, they would not know a lot of the
- 19 technical facts in the report, but they could remember
- 20 23,500. That was my point, to ask Mr Rooney if that is
- 21 correct. I mean, among all -- the report was actually
- 22 submitted to the CWC on 14 June for examination prior to
- submission to the RDO. On 14 June, although I'm not
- 24 a member of the CWC, I did attend the meeting, because
- I want to know what's going on, of course, as part of my

1 duty as chairman.

meeting held for almost three hours, if I'm not mistaken, to talk about the report. But it was about rather general issues but not necessarily specifically on the number of couplers. But I raised it on 15 June again, because I felt that the public, in my experience as a former minister, the public would focus on something like that, and that is why I specifically asked that question, and I think Mr Rooney also, in his statement, confirmed that I did ask that question.

Q. He did, he confirmed it in his statement and he confirmed it when I asked him about it, you will be pleased to hear. All right. Thank you for that, Prof Ma.

Can I then turn to a point that you mentioned just a moment ago, that is when you were told that in fact the number of couplers had been inaccurately calculated. You deal with that in paragraph 28 of your witness statement, and you refer to having returned to Hong Kong on 28 July and then immediately paying a visit to Dr Wong's office, or the site office, where Dr Wong's office was located, in the XRL West Kowloon Station.

I imagine, Prof Ma, that's the type of visit that you don't make very often; would that be right?

- A. I meet with Dr Philco Wong from time to time. The
 reason why -- we were originally going to meet at IFC,
 our town office, but he said he -- well, if I may,
 I backtrack a little bit what happened, because I think
 it's important.
 - On the 25th, as I said in paragraph 27, Mr Lincoln

 Leong told me there were some inaccuracies, in

 a WhatsApp message, not in an email but in a WhatsApp

 message, but he did not go into detail what the

 inaccuracies were. Inaccuracy could mean very minor

 amendment, could mean some very serious stuff, but he

 didn't mention it. But I knew he was going on vacation

 for a few days, and I was not in Hong Kong at that time,

 I was in North America, so I said -- we agreed that we

 would meet the following Monday to discuss about it.

Then, when I arrived Hong Kong on 28 July, in the early morning, because my plane came from North America, I arrived very early, I got messages from government officials. As a matter of fact, three government officials texted me, WhatsApp message, alerting me there is a serious crisis. So, after I learned from government officials -- the government officials told me, "You had a design change, da, da, da", which Mr Leong, to be fair, also mentioned in his WhatsApp message, but he did not link the two together.

- 1 Anyway, I have arrived Hong Kong, so I found out
- this. I called Dr Wong and I said, "How could something
- 3 like this happen?" His explanation was that the whole
- 4 report was prepared in a panic, so mistakes were made.
- I said, "Okay, let us meet." So we met up the following
- 6 day, in XRL site office, because he was going to have
- 7 a site visit, so to make sure that we get to meet, so
- 8 I went down to XRL.
- 9 Q. Right. As you said earlier and as I think you --
- 10 I think you used the word "shocked" earlier -- in your
- 11 witness statement you use the word "alarmed", and
- indeed, as you have just said, the explanation that
- 13 Dr Wong gave you, as you put it in your witness
- 14 statement, is that the error occurred because the report
- 15 was prepared under serious time pressure, and you used
- the word "panic" just a moment ago.
- 17 A. Yes.
- 18 Q. Before he had told you that on 29 July, were you aware
- 19 of the time scale and the pressure that the people
- 20 preparing the report were under before the report went
- 21 public on 15 June? Were you aware of that time
- 22 pressure?
- 23 A. I obviously am aware that RDO has initially asked for
- the report within one week. We asked for an extension.
- 25 We asked for a one-week extension. So the report was

- 1 submitted on 15 June. That is a two-week time frame.
- 2 Q. Yes.
- 3 A. Now, not being involved in the preparation of the
- 4 report, not -- Mr Leong chaired a committee meeting that
- 5 meets every day during those two weeks, in preparing
- 6 this report. So obviously, to MTR, we put a lot of
- 7 attention and we really want to make sure that the
- 8 report is accurate. That was my sense, as the
- 9 non-executive chairman.
- 10 So I wouldn't know whether two weeks is enough or
- 11 two months is more appropriate. I have no idea. But on
- 12 15 June, you know, we submitted the report.
- 13 Q. Right, and nobody ever said to you, either Aidan Rooney
- or Philco Wong or anybody else, "Look, Chairman, it's
- been a really tough job, we've been put under enormous
- 16 pressure, we're really not happy about the situation but
- we're going ahead anyway" -- nobody ever sort of
- 18 mentioned that to you?
- 19 A. No.
- 20 Q. All right.
- 21 When Dr Wong explained the point about serious time
- 22 pressure and that was the reason that he was putting
- forward for the error, what was your reaction to that
- 24 explanation?
- 25 A. My reaction was, "Do you think that the Commission or

- 1 the public would accept that?" That was my response.
- 2 Q. That was your actual response to Dr Wong, was it?
- 3 A. (Nodded head).
- 4 Q. In your witness statement, at paragraph 30, Prof Ma, you
- 5 go on to deal with a meeting that you had with the Chief
- 6 Executive. You say:
- 7 "On Sunday 5 August 2018, I received a request to
- 8 meet with the Chief Executive Mrs Carrie Lam ... the
- 9 following morning."
- 10 Presumably that was by a telephone call or --
- 11 A. Yes.
- 12 Q. You say in paragraph 31:
- "On 6 August 2018, I met with the Chief Executive as
- 14 scheduled. The Secretary for Transport and Housing,
- 15 Frank Chan was also present."
- 16 Was there anybody else present, Prof Ma, other than
- 17 yourself, Mr Chan and Mrs Lam?
- 18 A. The director of the CE's Office was present.
- 19 Q. The director of the Chief Executive's Office? Yes,
- 20 I understand.
- 21 A. So four of us.
- Q. Okay. How long did the meeting last?
- 23 A. Mr Chan was late coming to the meeting, but I think it
- lasted roughly maybe 30-45 minutes.
- 25 Q. Okay. You say in your witness statement that in the

- 1 meeting the Chief Executive mentioned to you that the
- 2 government had lost confidence in the project management
- 3 team of the SCL.
- 4 First of all, did you gather by whom the Chief
- 5 Executive had been briefed?
- 6 A. I assume, having worked in the government for six years,
- 7 that she's been well briefed by her colleagues.
- 8 Q. You say "her colleagues" -- I mean, this is obviously
- 9 not something the Chief Executive is going to know about
- 10 without being briefed.
- 11 A. Of course.
- 12 Q. Of course. I mean, was it Frank Chan?
- 13 A. I have no idea because I wasn't involved in those
- meetings, so I don't know who briefed her.
- 15 Q. You didn't sort of pick up during the meeting any
- intelligence about who may have briefed her?
- 17 A. I think your assumption is probably correct,
- 18 Mr Pennicott.
- 19 Q. All right. When you say you were informed that the
- government had lost confidence, did you ask why the
- government had lost confidence? Did you ask for
- 22 an explanation as to why the government had lost
- 23 confidence?
- 24 A. Having worked in the government for six years, I think
- government can tolerate people who are not capable, but

- 1 cannot tolerate reports that are inaccurate. So
- 2 I didn't ask.
- 3 Q. You didn't ask?
- 4 A. I knew, I think.
- 5 Q. So your conclusion was or your deduction was that the
- 6 loss of confidence was related to the inaccuracies in
- 7 the report?
- 8 A. I think so.
- 9 Q. Okay.
- 10 A. Because -- maybe I could elaborate here -- when the
- whole thing happened, the Chief Executive or for that
- matter the secretaries have never expressed any views
- about our management capability. It was after this
- 14 revelation that the government expressed that they have
- 15 lost confidence. So, I mean, you know, I don't have to
- 16 go into all sorts of questions to know that this is
- their thinking.
- 18 Q. Okay. You go on in your witness statement at
- 19 paragraph 31 to say this:
- 20 "The Chief Executive told me that government took
- 21 the view that the senior members of the projects team
- responsible for the SCL project, namely Dr Philco Wong,
- 23 TM Lee, Aidan Rooney, Jason Wong and also Lincoln Leong
- 24 should leave MTRCL."
- 25 A. Yes.

- 1 Q. As I understand it, I think the way that Mr Lincoln
- 2 Leong put it, although of course he wasn't at your
- meeting with the Chief Executive -- in fact the message
- 4 he got was that not only should they leave, they should
- 5 leave with immediate effect. Is that what you were told
- at the meeting?
- 7 A. After my meeting with the Chief Executive, I went to
- 8 Mr Frank Chan's office and called Mr Leong to come to
- 9 see Mr Chan and myself and relayed the message from the
- 10 Chief Executive.
- But I want to emphasise that while we do hear the
- views of the majority shareholder, ie the SAR
- 13 government, I as chairman must respect the corporate
- 14 governance. This sort of matter is not for the majority
- shareholder to decide; okay?
- 16 Q. My question, Prof Ma, was whether you were told by the
- 17 Chief Executive that not only should they leave but they
- should leave with immediate effect?
- 19 A. If I remember correctly, definitely it was not for
- 20 a prolonged period, particularly in the case of the four
- 21 projects team senior managers. For Mr Leong, there was
- 22 a discussion whether, you know, he should stay on just
- for handover.
- Q. I appreciate he was a special case.
- 25 A. Exactly.

- 1 Q. Yes, understood.
- 2 A. So my point was that although the Chief Executive
- 3 expressed her loss of confidence in the team, the whole
- 4 thing has to be put to the board of directors for
- 5 decision, as proper corporate governance should call
- for. So, as a result, we relayed the message to
- 7 Mr Leong what the majority shareholder had said, but
- 8 I immediately called for a board meeting the next
- 9 morning, okay, for the board to deliberate on this
- 10 point.
- 11 Q. I'm coming to that, Prof Ma, don't worry. Let's just
- get back to one more question on the meeting with the
- 13 Chief Executive on 6 August.
- 14 When you were told that the government had lost
- 15 confidence and that the senior members should leave MTR,
- 16 did you put up any resistance to that suggestion that
- 17 the senior team members should leave? Did you seek to
- 18 argue their corner? Did you seek to point out to the
- 19 Chief Executive that the report had been prepared under
- 20 enormous time pressure? I mean, did you try to, as it
- 21 were, defend what had been done?
- 22 A. No, I didn't, because I believe that this is for the
- 23 board to decide. I did not express my personal view.
- 24 Q. Did you have a personal view at the time, Prof Ma?
- 25 A. As I said, I was shocked, you know, by the inaccuracy of

- 1 the report, particularly after my question to Mr Rooney
- and after Mr Rooney had repeatedly told me that he had
- documentary evidence to support. I would be less than
- 4 honest if I tell you that I was not disappointed. I was
- 5 disappointed.
- 6 Q. There was -- the indication that you were given related
- 7 to the entirety, it seems to me, of the senior members
- 8 of the SCL project team. I mean, it was going to be
- 9 a wipeout of the senior members of that team. Was there
- 10 no consideration given to the individual roles that each
- of the gentlemen concerned played in the report and its
- 12 preparation?
- 13 A. It is probably true that Mr Rooney and Mr Wong and in
- 14 a way Philco Wong were involved more closely with the
- 15 project and with the report preparation compared to
- 16 Mr TM Lee --
- 17 O. Yes.
- 18 A. -- you know, because I get to see Mr Rooney and Mr Wong
- running around in the office all the time. I seldom see
- 20 TM Lee.
- 21 But having said that, Mr TM Lee is the general
- 22 manager of the project; okay?
- 23 Q. Yes.
- 24 A. But as I said, it is up to -- if the CEO expressed his
- view that certain members should not go because of

- 1 particular reason, I'm sure the board would have
- 2 listened.
- 3 Q. Okay. Anyway, as you rightly say, and you were telling
- 4 us just a moment ago, you called -- a board meeting was
- 5 called, and the upshot was that the board unanimously
- 6 voted for essentially what the government had indicated
- 7 should happen; that's right?
- 8 A. Yes, correct.
- 9 Q. You describe in paragraph 34 of your witness statement
- 10 that the view expressed by government was a "firm view",
- and that's right, is it, Prof Ma?
- 12 A. Yes, I don't detect that their view would be easily
- changed.
- 14 Q. Right.
- 15 A. That is their view but that is not necessarily the
- 16 board's decision. We have to respect the board's
- 17 decision.
- 18 Q. You say at paragraph 36:
- 19 "I stated to the board my view that the issue had
- given rise to a crisis of confidence and asked Frank
- 21 Chan for the government's view on the matter."
- 22 So Frank Chan, in his capacity of a non-executive
- 23 director of MTR, was obviously at this board meeting --
- 24 A. Yes.
- 25 Q. -- and he had already expressed his views, presumably,

- 1 at the meeting you'd had with Mrs Lam?
- 2 A. Yes.
- 3 Q. So he was basically repeating what you had already
- 4 heard?
- 5 A. Yes.
- 6 Q. And he told the board that the government had lost
- 7 confidence in the project management team of the SCL and
- 8 that the MTR should consider whether senior members of
- 9 the projects team should leave.
- Then also the board was informed by Lincoln Leong
- 11 that Dr Philco Wong had already tendered his
- resignation, and so forth, and so on.
- 13 Was there much discussion about what should happen
- regarding the four people leaving?
- 15 A. Yes, there was discussion, I recall. It's all in the
- 16 minutes, you know. I should say that the MTR board is
- 17 not what I call a rubberstamping type of board. It's
- 18 a very active board. Board members consist of 14 INEDs,
- 19 four government officials, myself as non-executive
- 20 chairman, and Lincoln Leong as a board member. We
- 21 always have active discussion. And in this incident,
- I remember we discussed -- particularly members were
- concerned as to why such situation happened, ie how come
- 24 the report, after all this intense preparation, turns
- out to be incorrect, you know.

- 1 But I think members were -- really understand why
- 2 government lost confidence, because by then, you know,
- 3 we appreciated that the report was inaccurate and that
- 4 we didn't do, you know, what we were telling the
- 5 government, what we were telling the public.
- 6 Q. Prof Ma, after the government, on 6 August, had
- 7 expressed their firm view, the result of the board
- 8 meeting was pretty much a foregone conclusion, wasn't
- 9 it?
- 10 A. Well, the board decided, just like that.
- 11 Q. Was it at the meeting with the Chief Executive on
- 12 6 August that you offered your own resignation?
- 13 A. I offered my resignation twice, as I mentioned in the
- 14 statement.
- 15 Q. One of them was on 6 August and I wondered whether it
- was at that meeting.
- 17 A. Which meeting are you referring to?
- 18 Q. With the Chief Executive on 6 August.
- 19 A. Yes, same meeting, when she mentioned lost confidence,
- 20 yes. In the same meeting, I offered, shall I say, my
- second resignation, my second attempt to resign.
- 22 MR PENNICOTT: Thank you very much, Prof Ma. I have no
- 23 further questions.
- 24 WITNESS: Thank you very much.
- 25 Cross-examination by MR TO

- 1 MR TO: Chairman and Commissioner, good morning.
- 2 I am Christopher To, representing China Technology.
- I just have a few questions to ask you, if I may.
- 4 Prof Ma, can I take you to your witness statement,
- 5 if I may, on B105.
- 6 A. Yes.
- 7 Q. Do you have that; yes?
- 8 A. Yes.
- 9 Q. In paragraph 4, can I take you down to line 5. You
- 10 mentioned about "promoting a culture of openness", and
- can I also take you down to line 8, "good corporate
- governance practices and procedures", and also can
- 13 I take you to paragraph 5 of your witness statement,
- "corporate governance"; can you see those, Prof Ma?
- 15 A. Yes.
- 16 Q. In terms of, if you want to call, the troublemaker, the
- 17 client, China Technology, the first email basically was
- 18 6 January 2017. Did you see that email?
- 19 A. No.
- 20 Q. Did you see the email that China Technology sent to the
- 21 Transport and Housing Bureau on 15 September?
- 22 A. No.
- 23 Q. So you became aware of the incident on roughly 31 May
- 24 2018?
- 25 A. Yes.

- 1 $\,$ Q. You also sometimes sort of attended the capital works
- 2 committee, you just mentioned that earlier on, and they
- 3 also gave you quarterly reports?
- 4 A. I should clarify that the capital works committee would
- 5 report to the board, you know, at our regular board
- 6 meeting, their proceedings. But I only attend capital
- 7 works committee meetings on 14 June and subsequently
- later, when we appointed a consultant to look into our
- 9 procedures. So I don't normally -- not being a member
- of the CWC, I don't normally attend their meetings, but
- we do get the minutes of the CWC, and CWC chairman would
- 12 also, at the regular board meeting deliver it to the
- board what happened at the CWC.
- 14 Q. Thank you, Prof Ma. I fully appreciate that.
- 15 Can I take you to your paragraph 11 of your witness
- 16 statement. This is not a criticism, I'm just stating
- 17 a fact:
- 18 "... the CWC comprises seven non-executive
- 19 directors, six of whom are independent non-executive
- 20 directors of MTRCL."
- Is that correct?
- 22 A. Yes, I believe it's correct.
- Q. I don't have to show you this, but in Mr Lincoln Leong's
- 24 statement yesterday, he did give, in paragraph 25,
- a list of those INEDs, as well as NEDs. Just looking at

- 1 the list -- if you want to refer to it, it's B121, if
- 2 you have a copy of it.
- 3 A. I'm going to.
- 4 Okay.
- 5 Q. Paragraph 25. If you look at the list, except for one
- 6 person who is the Permanent Secretary for Development
- 7 (Works), basically he's now retired, but the rest tend
- 8 to be, for example, part-timers who have full-time jobs?
- 9 A. Yes. What is the issue?
- 10 Q. The issue is -- I'm coming to next. The next issue
- 11 relates to what Mr Lincoln Leong said yesterday about
- the three lines of defence, if I can take you to that.
- 13 That's in his paragraph 23 at page 120.
- 14 A. Mm-hmm.
- 15 Q. He mentioned three lines of defence, which I asked him
- 16 yesterday. The first line concerns the management
- 17 control, the second relates to risk management and
- 18 compliance oversight, and the last one relates to the
- 19 internal audit.
- Then on top that he mentioned in paragraph 24
- 21 basically you have the CWC, which you kindly referred to
- 22 earlier on, and also for example at the back, if you
- look at in terms of paragraph 28 of his statement, there
- is also a risk committee who does -- I also mentioned
- 25 this yesterday -- a "deep dive" into reviews of selected

- 1 risk areas, reviewing the effectiveness of ERM
- functions, et cetera, and also, in paragraph 29, the
- 3 audit committee.
- 4 So you can see that there are roughly -- if you look
- 5 at it, there are basically six lines of defence in the
- 6 MTR; yes? So --
- 7 A. Depends on what do you mean by "defence".
- 8 Q. "Defence" means if there are issues, there are six sort
- 9 of organisation structures that will look into matters?
- 10 A. Well, different committees have different mandate.
- 11 Different committees have their different duties.
- 12 That's all I can say. I wouldn't say it's "defence", in
- 13 your definition.
- 14 Q. I understand. So my point is, Prof Ma, if you go back
- to your statement at paragraph 11 -- this is not
- 16 a criticism at all, this is just to help -- you can see
- 17 that these seven non-executive directors are all
- 18 part-timers. My view is, correct me if I am wrong or
- 19 not, should there be some full-timers there or someone
- 20 who can actually oversee the whole project from day one?
- 21 A. The full-timers, in your word, report to the committee.
- 22 Q. Report to the committee and --
- 23 A. So whenever they convene a committee meeting, just like
- any other committee in MTR, under the board structure,
- 25 the full-timers would report to the committee what they

- 1 knew, and the committee has the authority to question
- 2 the executives.
- 3 Q. So the executives are the full-time committee members?
- 4 A. Of course, yes.
- 5 O. I understand.
- 6 A. They are not members of the committee, but they do
- 7 attend the meetings.
- 8 Q. Thank you very much. Can I move on, for example in
- 9 paragraph 13 of your witness statement.
- 10 In paragraph 13, you mention that you became aware
- of the situation at the end of May.
- 12 In terms of a person who has basically with openness
- and integrity, you conducted a special board meeting on
- 14 5 June 2018 to discuss these issues; is that correct?
- 15 A. I believe we convened the board meeting on 2 June.
- 16 Q. The 2nd, a special board meeting was held, and another
- 17 special board meeting was held on June --
- 18 A. There were two meetings, one on 2 June, one on 5 June,
- 19 according to this statement.
- 20 Q. Thank you for your correction. What I am going to take
- 21 you on to now is the MTRC report, if I may. If you look
- at the MTRC report, that's in B1. Do you have a copy of
- that, Prof Ma?
- 24 A. I do.
- Q. Can I take you to B36 of that report. I also asked this

- 1 question of Mr Lincoln Leong yesterday.
- 2 A. Yes.
- 3 Q. If you look in the paragraph that says, "Interview of
- 4 sub-contractor (China Technology)":
- 5 "No information in relation to the interview with
- 6 China Technology is included here."
- 7 First of all, Prof Ma, have you read this report?
- 8 A. I read the report and, as a matter of fact, I did ask
- 9 the question why China Technology interview was not
- included.
- 11 Q. And what was the answer given?
- 12 A. Because -- the answer given was because there were
- allegations in China Technology's report that there were
- 14 corruption in the site, and this is a very serious
- 15 charge, so executives, not me, decided not to include it
- in the report, which makes sense to me; okay? And, as
- 17 a matter of fact, I asked the executives if, you know,
- 18 given China Technology's charges, did we refer the case
- 19 to ICAC? I did ask that question.
- 20 Q. Okay. Your executive committee, under the leadership of
- 21 Gill Meller, quite rightly competently wrote to Leighton
- and basically wrote a letter -- it's B4643; you don't
- have to refer to it. But there was a response from
- Leighton and I'll take you to that response. It's
- 25 B3090, if I may.

- 1 Can I show you to the very last paragraph of the
- 2 letter, and if you look at here, it says:
- 3 "In concluding, we make the general observation that
- 4 a large number of the matters raised today were not
- 5 substantiated by any records or contemporaneous notes.
- 6 No doubt MTR will draw its own conclusions about the
- 7 weight to be given to such bald assertions. Leighton
- 8 and its officers and employees reserve their rights in
- 9 respect of these matters."
- 10 So, Prof Ma, have you seen this letter?
- 11 A. No.
- 12 Q. Just by reading this statement, what do you think?
- 13 A. Very legalistic letter. Not being a lawyer --
- 14 MR BOULDING: Sir, shouldn't he be shown the whole letter as
- opposed to just the last paragraph?
- 16 CHAIRMAN: Is the question, "What do you make of the last
- 17 paragraph?"
- 18 MR TO: Yes.
- 19 Prof Ma, what do you make of the last paragraph?
- 20 A. I can only go by the last paragraph saying that it is
- 21 not substantiated.
- 22 Q. So, being an open person, which you stated earlier on,
- do you think this is fair?
- 24 A. Not knowing the whole situation, it's difficult for me
- to make a judgment, to be honest.

1 CHAIRMAN: I appreciate the line of questioning. I don't wish to cut across it. But I think that final paragraph 2 3 speaks for itself. Simply, it's a statement by the 4 author on behalf of those the author represents, saying that in the view of Leighton, the matters raised, or 5 a large number of them, were simply not substantiated by 6 any records or contemporaneous notes. That's just 7 a statement as an assertion of fact. And the other one 8 9 is what I suspect any competent lawyer in today's 10 society would advise his client: in other words, publishing in the public domain statements which may be 11 12 defamatory may make the publisher liable. MR SHIEH: Mr Chairman, you will no doubt notice who is 13 seated behind Christopher To today. That could give the 14 15 clue as to why this line of questions is being put. Secondly, Prof Ma has said that contemporaneously 16 17 with this letter, he had not actually seen it. So the 18 question could not have had anything to do with what 19 Prof Ma did or thought at the material time. 20 Therefore, I question what the relevance is to what 21 Prof Ma now thinks of four lines in a very long letter. 22 I need say no more about it, Mr Chairman. 23 CHAIRMAN: Thank you. 24 Yes, Mr To. MR TO: Mr Chairman and Commissioner, I'll move on. 25

- 1 CHAIRMAN: Thank you.
- 2 MR TO: Thank you, Prof Ma, on that point.
- Now can I refer you to paragraph 18 of your witness
- 4 statement, Prof Ma.
- 5 A. Yes.
- 6 Q. In line 5 -- can you see that? -- you said:
- 7 "... I was under the impression ..."
- 8 Who gave you that impression?
- 9 A. Throughout the discussion at the CWC, you obviously get
- 10 certain impression from my team. That's how I arrived
- 11 at the conclusion.
- 12 Q. Can I take you to B16/14036. If you look down, this
- 13 basically is sent on behalf by Mr Allan Wong about the
- 14 report, and if you go to the middle paragraph, you will
- see, for example, it says, "there are some
- 16 contradictions" -- can you see that?
- 17 It's line 3, can you see that, line 3, the second
- 18 paragraph?
- 19 A. Yes.
- 20 O. "... there are some contradictions and inconsistencies
- 21 between the recollections of certain individuals."
- 22 And after that:
- "... without making a judgment as to the underlying
- facts, particularly in light of the upcoming Commission
- of Inquiry."

- 1 Can you see that?
- 2 A. Yes.
- 3 Q. So, basically, the CWC chairman says, "We should state
- 4 the facts", but as I showed you earlier on, in B36,
- 5 there was not a single thing about any facts or
- 6 whether -- forget about the allegations -- about China
- 7 Technology's interview whatsoever, on page B36 in the
- 8 report. Forget about the allegations, defamation, but
- 9 there's not a single item mentioned about China
- 10 Technology being interviewed or even, for example,
- 11 stating what certain matters were discussed.
- 12 A. I'm sorry, counsel, I don't quite get your point.
- 13 Q. But in this email, it says very clearly that you have to
- 14 state the facts. The facts are not stated, in B36 of
- 15 the report.
- 16 A. I'm sorry, can you repeat your point?
- 17 Q. Sorry about that, Prof Ma. In the email, it says, from
- 18 Allan Wong, Dr Allan Wong -- it mentioned that there are
- 19 contradictions, there are some inconsistencies between
- 20 what people have said, but he did say, for example,
- 21 "state the facts", and if you look at B36 --
- 22 CHAIRMAN: Sorry, where is the phrase "state the facts"?
- 23 MR TO: "... state the different recollections, without
- 24 making a judgment as to the underlying facts ..."
- 25 CHAIRMAN: Yes.

- 1 MR TO: So, in this report, there's not a single thing
- 2 mentioned about China Technology, except for "No
- 3 information in relation to the interview with China
- 4 Technology is included here".
- 5 It's not your fault. I'm just making a statement,
- 6 that's all.
- 7 CHAIRMAN: I think --
- 8 A. Chairman, I don't know how to comment.
- 9 CHAIRMAN: That's right. Perhaps if one puts at the end of
- that statement "would you agree?"
- 11 A. It is difficult because, you know, you mention why
- 12 certain things were not specified, and as I said I'm not
- 13 a member of the CWC, to begin with, I was just
- 14 an observer in that particular meeting. You know, at
- 15 the committee meeting, all the facts were presented,
- 16 including China Technology was discussed, I'm sure, if
- 17 you look at the minutes of the meeting.
- 18 So counsel implies that we just ignored China
- 19 Technology; it's not correct. We did discuss it, I'm
- 20 sure, although I did not -- I cannot recollect what was
- 21 discussed.
- 22 CHAIRMAN: All right.
- 23 MR TO: Prof Ma, you did discuss it. I'm just making
- a point that it's not stated here.
- 25 A. I'm sure it was discussed.

- 1 Q. That's not a criticism at all.
- 2 In terms of -- can I go back to your statement,
- 3 B109.
- 4 A. Yes.
- 5 Q. In paragraph 23 -- can you see that?
- 6 A. Yes.
- 7 Q. There was a press statement made; yes?
- 8 A. Mm-hmm.
- 9 Q. If you look at the very last sentence, it says:
- "In this press release, MTRC also made clear that if
- any violation was found, MTRC would take the matter very
- seriously and report it to relevant law enforcement
- 13 agencies."
- 14 Can I take you to that press release. I mentioned
- 15 Mr Lincoln Leong yesterday. It's B9/7031.
- 16 Prof Ma, can you see, in this press release, was
- 17 there any mention of the words "law enforcement
- agencies" anywhere in this press release?
- 19 A. I don't see those two words that you refer to.
- 20 Q. But if you look at the first paragraph, it says:
- "The board takes these matters very seriously."
- 22 From your understanding, the word "seriously", that
- 23 means you would report it to the various relevant
- 24 authorities?

25 A. Hong Kong has excellent governance system, including law

- enforcement agencies. So if someone did something

 wrong, legally, of course, you know, we take this

 seriously, so by implication we would go to, you know,

 all the law enforcement agencies, to report any

 irregular or unlawful act on the part of anybody.

 That's common sense, isn't it?

 So the fact I mentioned it -- I still remember at
 - So the fact I mentioned it -- I still remember at the stand-up on 22 June, I did mention something like that. As a matter of fact, I mentioned the fact that we would report this sort of situation to law enforcement agency not only one time but a few times, if I remember correctly. Because we, you know, as MTRC, of course have to report any offence to law, to any law enforcement agency, just like when China Technology alleged we have corruption in the site, we report the case accordingly. You know, that is very, very logical and normal.
 - Q. Thank you, Prof Ma, for that point.
 - Can I take you on to maybe my last point. My last point relates to the inaccuracies of the report. It is in paragraphs 27 to 29. My learned friend Mr Ian Pennicott took you to paragraph 28.
 - So, when you looked at this report, you basically said, in the middle of 28, you can see in line 8 down, can you see:

- "I was naturally alarmed by [the revelations] ..."
- Okay? So you can see that. What were you alarmed
- 3 about? What went wrong in the report?
- 4 A. The fact that the report was inaccurate.
- 5 Q. Inaccurate. So can I take you to what Mr Lincoln Leong
- said yesterday. It's in page 161 of the transcript. If
- 7 you look at line 20 -- I will just read it very quickly:
- 8 "... [the] whole issue of the backdating as well as
- 9 the retrospective nature of those papers were
- 10 highlighted in one of, I believe, the crisis management
- 11 meetings in August ..."
- 12 Prof Ma, are you aware or do you know there's
- 13 backdating and retrospective records been made in the
- 14 report or other information?
- 15 A. No.
- 16 MR TO: You're not? Prof Ma, I don't have any further
- 17 questions, and thank you for being honest.
- 18 WITNESS: Thank you, counsel.
- 19 MR KHAW: Mr Pennicott has probably stolen our thunder and
- I believe most of the questions we had intended to
- 21 discuss with Mr Ma have been canvassed. We have no
- 22 further questions.
- 23 CHAIRMAN: Thank you very much.
- 24 MR CONNOR: No questions for Atkins. Thank you, sir.
- 25 MR SHIEH: No questions from Leighton.

- 1 CHAIRMAN: Thank you.
- 2 MR BOULDING: Sir, I have no re-examination for the
- 3 professor, so unless you have any questions?
- 4 Questioning by THE COMMISSIONERS
- 5 COMMISSIONER HANSFORD: I have one question for Prof Ma.
- 6 Prof Ma, I'm interested in the capital works
- 7 committee. My understanding is the CWC was established
- 8 in 2014, following concerns about the XRL project.
- 9 A. Absolutely.
- 10 COMMISSIONER HANSFORD: I understand its focus is primarily
- on reviewing progress of projects from a programme and
- 12 cost perspective; is that correct?
- 13 A. Correct.
- 14 COMMISSIONER HANSFORD: In your witness statement, in
- 15 paragraph 40(d) of your witness statement, under "Going
- forward", you tell us, helpfully:
- 17 "the terms of reference of the CWC is now being
- 18 revised to enhance its oversight of the quality of the
- 19 capital works projects."
- 20 Has it previously had a role in overseeing quality,
- or is that a new role for the CWC?
- 22 A. Professor, Chairman, this is going to be a new role for
- the CWC. If you recall, in 2014, when we established
- the CWC, it's because XRL was facing cost overrun and
- also project delay, and as a result CWC was established.

- 1 COMMISSIONER HANSFORD: Yes.
- 2 A. We have no doubt that the quality of the management team
- in overseeing project management, because even in the
- 4 expert report of which, Professor, you were involved --
- 5 COMMISSIONER HANSFORD: Indeed.
- 6 A. -- you actually complimented MTR in the PIMS and all
- 7 that, if I recall correctly. I don't want to put words
- 8 into your mouth, but I recall that you actually
- 9 complimented MTR.
- 10 So given that we internally never were concerned
- about the quality of the project as such, because we
- believe we have a top-notch professional team to oversee
- 13 the quality, so quality never came into the equation
- 14 per se, except that this time, you know, even what
- 15 happened, CWC is not questioning the quality of the
- 16 management team, but just to be sure, it is not a bad
- idea to also keep an eye on the quality.
- 18 COMMISSIONER HANSFORD: So when you refer to "quality" in
- 19 paragraph 40(d), are you referring to the quality of the
- 20 management team or the quality of the works?
- 21 A. If I remember correctly, we were referring to the
- quality of the work, not the management team. The
- 23 management team is selected by the CEO.
- 24 COMMISSIONER HANSFORD: Indeed.

25 A. Okay? And as such, we believe that our CEO will pick

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- 1 best team to do the job.
- 2 But moving forward, I think the CWC would like to
- 3 know, for example, certain aspects, if quality were not
- 4 up to standard, then they would like to know.
- 5 COMMISSIONER HANSFORD: Quality of the works?
- 6 A. Yes. You know, if there were any, for example,
- 7 non-compliance report, NCR, they would like to know; if
- 8 certain project had issued NCR, then they need to know.
- 9 In the past, they don't need to know about it. They
- 10 assume it would be taken care of by the project team.
- But from now on, my understanding is the CWC would like
- 12 to know issues of that nature.
- 13 COMMISSIONER HANSFORD: This will therefore give the board
- 14 more visibility on the quality of the works being
- carried out; is that the purpose?
- 16 A. Yes. I should also mention, Chairman and Professor,
- 17 that, you know, throughout the 39 years of history of
- 18 MTR, we have delivered many, many projects to Hong Kong,
- 19 and all these projects are top-notch in quality. Why
- 20 this one failed? This is something of course for the
- 21 Commission to find out. But I would say that overall
- the quality of our work has been top-notch, you know,
- recognised by the industry, recognised by the public.
- Even the opening of the XRL recently has been well
- 25 received.

- So this is just to be safe that we mention about quality. The fact that CWC would focus on the quality doesn't mean that we see there is a big issue in the system; okay? But we want to make absolutely sure that this sort of issue does not arise in the future.
- 6 CHAIRMAN: Can you tell me just -- the work of the CWC, has
 7 it been effective, in your mind, and is it important?
- It is a very important committee of the board, and as 8 9 you can see, Chairman, in the composition of the CWC, we 10 have some very experienced engineers on the committee, 11 including a permanent secretary from the government, who 12 is an engineer himself. Dr Allan Wong is a very successful industrialist and engineer by background, and 13 14 James Kwan is also a very experienced engineer, having 15 worked for Towngas for a long time. So we have a group of very experienced engineers, experienced entrepreneurs 16 17 and industrialists on the committee, and they take their 18 job seriously, and I believe that they are effective, 19 but given this incident there are always room for 20 improvement. I am not saying that MTR is flawless in absolutely everything. Absolutely not. There are room 21 22 for improvement, in communication, in project management 23 and so forth.

So that is why we hired this consultant to help CWC to look into the procedures. We learn from painful

24

- lessons like this, to be honest. Even as non-executive
- 2 chairman I learn a lot more from this whole episode than
- 3 what I would have known if this doesn't happen.
- 4 But I think, you know, we need to move forward, we
- 5 need to learn from our painful lessons, because we are
- 6 here to serve Hong Kong for the next 40 years,
- 7 400 years, so we need to do better and better for the
- 8 community. I truly believe that MTR is a great
- 9 organisation, but there are always room for improvement,
- 10 sir.
- 11 CHAIRMAN: Thank you very much.
- 12 COMMISSIONER HANSFORD: Thank you.
- MR BOULDING: Thank you very much indeed, Professor.
- 14 CHAIRMAN: Thank you, Professor, for coming today.
- 15 WITNESS: Thank you, Chairman. Thank you, Professor. Thank
- 16 you for having me.
- 17 MR BOULDING: Commissioners, that concludes MTR's factual
- 18 evidence.
- 19 CHAIRMAN: Shall we have the morning adjournment,
- 20 15 minutes, or do you wish to --
- 21 MR PENNICOTT: No, I think this is an opportune moment.
- 22 CHAIRMAN: Good. Thank you.
- 23 (11.23 am)
- 24 (A short adjournment)
- 25 (11.43 am)

- 1 MR CONNOR: Good morning, sir. Good morning, Professor.
- 2 We have the first witness now on behalf of Atkins
- 3 China Ltd, who is Mr John Blackwood, who is sitting in
- 4 the witness chair.
- 5 MR JOHN BLACKWOOD (affirmed)
- 6 Examination-in-chief by MR CONNOR
- 7 Q. Thank you very much. Good morning, Mr Blackwood.
- 8 A. Good morning.
- 9 Q. Your full name is John Blackwood?
- 10 A. That's correct.
- 11 Q. And you are, as far as this Commission of Inquiry is
- 12 concerned, giving evidence in terms of your three roles:
- 13 you're a director of Atkins China Ltd?
- 14 A. Yes, that's correct.
- 15 Q. You're the director of transport for Atkins China Ltd?
- 16 A. That's also correct.
- 17 Q. And you are project director in respect of two contracts
- 18 with respect to the project under consideration in this
- 19 Commission of Inquiry; correct?
- 20 A. That's correct.
- 21 Q. One of those is the consultancy agreement, known as
- 22 C1106, for detailed design with MTRC?
- 23 A. Yes.
- Q. Thank you. The second is the consultancy agreement for
- temporary works contract 1112 with Leighton?

- 1 A. That's correct.
- 2 Q. In those roles, you have prepared one witness statement,
- 3 which is in bundle J1/8, which we might have on the
- 4 screen in front of us, and that begins at page J56. Do
- 5 you see that witness statement, Mr Blackwood?
- 6 A. That's my witness statement.
- 7 Q. If you turn to, please, page J77 of that witness
- 8 statement, you will see a signature that appears there.
- 9 Is that your signature, Mr Blackwood?
- 10 A. That is my signature.
- 11 Q. Now, attached to your witness statement, as you may
- recall, there were a number of attachments. If I can
- just take you to a number of those. I think they were
- JB-1 to JB-12 inclusive; do you recall that?
- 15 A. Yes.
- 16 Q. If you turn to JB-1, I think you'll see that that
- appears at page J80, and that is your CV?
- 18 A. That is my CV.
- 19 Q. If you then turn to page J83, this is the beginning of
- your attachment JB-2; is that correct?
- 21 A. Yes.
- 22 Q. It is here that we see described, amongst other things,
- your roles and responsibilities as project director of
- 24 team A?
- 25 A. That's correct.

- 1 Q. And by "team A" we understand the contract with which
- 2 Atkins had with MTRC?
- 3 A. Yes.
- 4 Q. Thank you. If you turn to page J85, we see there,
- 5 again, amongst other things, a description of your roles
- and responsibilities as project director of team B?
- 7 A. Correct.
- 8 Q. Again, by "team B", we understand the contract which
- 9 Atkins China has with Leighton?
- 10 A. Yes.
- 11 Q. For the sake of completeness, if you would be good
- enough to have before you what is JB-3, which is
- 13 page J87. That is an organisation sheet which I think
- explains the position of various personnel within Atkins
- 15 China, and in particular I think we see you to the
- 16 left-hand side of that organisation chat. Just below
- 17 Mr Samson Sin as managing director, we see you as
- 18 transport director?
- 19 A. That's correct.
- 20 COMMISSIONER HANSFORD: Sorry, EDPM -- what is EDPM?
- 21 A. Engineering design project management. It's a part of
- 22 the Atkins Group. I shouldn't say it's part of the
- 23 Atkins Group; it's where Atkins sit within the
- 24 SNC-Lavalin group of companies. We are under EDPM and
- we are part of the whole global EDPM business,

- 1 basically.
- 2 COMMISSIONER HANSFORD: Thank you.
- 3 MR CONNOR: Thank you, Professor.
- 4 Again, turning to what is JB-4 in your statement at
- 5 page J88, we see then the organisation chart for the
- 6 transport division within Atkins; is that so?
- 7 A. Yes.
- 8 Q. And we see you as director of transport, based in
- 9 Hong Kong, and your three colleagues who report to you?
- 10 A. Correct.
- 11 Q. Then finally in detail on this sort of matter, you see
- at what is JB-5 to your statement, which starts at J89,
- 13 the first of three figures, beginning with figure 2,
- 14 which is an organisation chart in respect of team A,
- working with MTR; is that so?
- 16 A. Yes.
- 17 Q. Do we see you at very much the top of that page as
- 18 project director?
- 19 A. That's correct.
- 20 Q. Thank you. Just for the record, I think that is
- 21 an organisation chart dated as at October 2015; is that
- 22 so?
- 23 A. Yes.
- 24 Q. Thank you. But you are still in that role today?
- 25 A. Yes.

- 1 Q. Thank you.
- Then turning to the next figure, which is at J90,
- 3 this is an organisation chart in respect of team B; is
- 4 that so?
- 5 A. Correct.
- 6 Q. This is correct as at November 2014?
- 7 A. Yes.
- 8 Q. And that shows you as project director in the top
- 9 right-hand corner of the organisation chart?
- 10 A. Correct.
- 11 Q. Finally, for completeness, at J91, at figure 4, this is
- the same organisation chart for team B, as at October
- 13 2015?
- 14 A. Yes.
- 15 Q. Again, your position similarly noted in the top
- 16 right-hand corner as project director?
- 17 A. Yes.
- 18 Q. Thank you. Now, I think as you have said, the evidence
- 19 that you have provided in your witness statement has
- some 12 attachments to it, which you will be pleased to
- 21 hear it's not my attention to take you through entirely,
- but I might just take you to one, because it will be of
- 23 significance to the Commission as matters progress, and
- that is to JB-12 which is at page J3323. I think, for
- 25 the record, that's probably bundle J5.

- 1 There we see a copy of a presentation, that is
- 2 a PowerPoint presentation, with notes sections
- 3 completed, which run from that page, again just for the
- 4 purposes of the record, to page J3343; do you see that?
- 5 A. I do.
- 6 Q. This is a presentation which was made by Atkins to the
- 7 Buildings Department on or about 12 July of this year?
- 8 A. Correct.
- 9 Q. This was a presentation, which I think the notes section
- narrates, which was primarily to a Prof Nethercot?
- 11 A. Yes.
- 12 Q. Can you just inform the Commission as to what the
- 13 purpose was of that presentation, as you understand it,
- and what your role was in that?
- 15 A. I was -- we were requested by MTRC to give
- 16 a presentation to Prof Nethercot, who was advising BD,
- 17 and to representatives of BD, on the fundamental design
- 18 principles and approach adopted for the design of the
- 19 underground element of Hung Hom Station, with a focus on
- 20 the EWL slab/D-wall connection, which was obviously
- 21 a major issue at that time, and still is.
- 22 MR CONNOR: Thank you. It's possible that others may ask
- you about this in the course of the next while, but it's
- 24 not, sir and professor, my intention to ask anything
- further of this, but I do know that we will come back in

- 1 more detail to this presentation when we come to the
- 2 second witness, Mr Wilson Sung, but it's important that
- 3 Mr Blackwood introduces it at this stage.
- 4 CHAIRMAN: Yes, certainly.
- 5 MR CONNOR: Thank you. I have nothing further to ask you in
- 6 relation to that presentation at this stage,
- 7 Mr Blackwood.
- 8 Finally, just in terms of the evidence that you have
- 9 presented already to the Commission -- you've told us
- 10 about your statement and you've told us about the
- 12 attachments to it, which run between JB-1 and JB-12,
- which for the record are between pages J80 and J3343.
- 13 I think also, as you know, in the course of the last
- 14 few weeks, there have been some questions asked by
- 15 Prof McQuillan on behalf of the Commission; is that so?
- 16 A. There have been, yes.
- 17 Q. And you have been the organiser of the responses to
- those enquiries made by Prof McQuillan?
- 19 A. The responses have been channelled through me back to
- the Commission.
- 21 Q. Thank you. Again, for the record, but I don't intend to
- take you there in any detail at all, those responses
- appear in bundle J6.
- So just a very short but important question,
- 25 Mr Blackwood: would you please confirm to the Commission

- 1 that the evidence that we have seen in your witness
- 2 statement, together with the attachments that we've
- 3 referred to, consist of your evidence to this
- 4 Commission, and that you so present it to the
- 5 Commission?
- 6 A. I do.
- 7 Q. Thank you. Do you confirm that, to the best of your
- 8 knowledge and belief, it's true?
- 9 A. To the best of my knowledge and belief, it's true.
- 10 MR CONNOR: Thank you very much. Now, you have been to
- earlier days of the Commission so you appreciate the
- format and procedure that we have here. Mr Pennicott,
- who's directly in front of me, may have some questions
- for you. Other counsel in the room may also have some
- 15 questions for you. Most importantly, the Chairman and
- 16 the professor may have questions for you at any stage in
- 17 matters and, if need be, I may have some closing
- 18 questions.
- 19 With that, thank you, Mr Blackwood. Please remain
- there and I'll pass to Mr Pennicott.
- 21 Examination by MR PENNICOTT
- 22 MR PENNICOTT: Good morning, Mr Blackwood.
- 23 A. Good morning.
- 24 Q. As I think Mr Connor has indicated, I think you're
- familiar with the way it works.

- 1 A. Yes.
- Q. Can I first of all, however, thank you for coming along
- 3 to give evidence to the Commission this morning, and
- 4 also thank you for the assistance and cooperation that
- 5 you've given in dealing with the gueries of the
- 6 Commission's expert.
- 7 A. Okay.
- 8 Q. Thank you for that.
- 9 Now, as we've just seen with Mr Connor, you were the
- 10 project director of both Atkins team A and team B?
- 11 A. Yes, and still am.
- 12 Q. Yes, and still are, yes. I know we'll be hearing from
- him on Monday next week, but, as I understand it,
- 14 Mr McCrae was, at the times we are concerned with in
- 15 this Commission -- 2014, 2015, going into 2016 --
- 16 Mr McCrae was the project manager of Atkins team B and
- the design team leader of Atkins team A?
- 18 A. That's correct.
- 19 Q. So essentially the two most senior positions in those
- teams were you and Mr McCrae, and you were in both
- 21 teams?
- 22 A. That's correct.
- 23 Q. As I understand, Mr McCrae left in April -- well, left
- 24 Hong Kong; I think he's still with Atkins in London --
- 25 A. Yes.

- 1 Q. -- he left in April 2016?
- 2 A. That's correct.
- 3 Q. And there were other members of the Atkins team that
- 4 were in both team A and team B?
- 5 A. There were one or two, yes.
- Q. There's one we've spotted, Edward Tse, T-S-E?
- 7 A. Yes.
- 8 Q. He was in both.
- 9 Could I ask you, please, on this topic, to be shown
- 10 a couple of paragraphs from the witness statement of
- 11 Mr Buckland of Leighton. First of all, can we look at
- bundle C27/20804, and could we look at the footnote at
- 13 the bottom, please.
- 14 What Mr Buckland says, in footnote 3 there -- he
- says:
- 16 "Typically, the same group of people at Atkins acted
- as MTRCL's DDC and also for Leighton."
- Then could we also look at C32/24023, at
- 19 paragraph 14. This is also Mr Buckland's further
- 20 statement. He says:
- 21 "While MTRC may have initially intended there to be
- some separation between the two Atkins' teams, MTRC knew
- that there was no real separation and accepted this
- 24 position. Indeed, MTR actively encouraged the same
- 25 people at Atkins to [complete] the work for MTR's DDC

- 1 and Leighton. It follows ..."
- 2 Let's pause there.
- 3 Do you agree with what Mr Buckland says in that
- footnote and that paragraph that I've just shown you,
- 5 Mr Blackwood?
- 6 A. No, I don't agree with that. I think it's a bit of
- 7 a generalisation that it was the same people in the same
- 8 teams. I highlight in particular Mr David Wilson, who
- 9 was the structural team leader and the design
- 10 coordinator for team B, who was totally dedicated to
- team B and the primary point of contact with team B.
- 12 Q. Right.
- 13 A. I think there was an understanding the teams would
- 14 communicate and that was encouraged, but that was where
- basically the intent was.
- 16 Q. So your intent and objective was to try to keep them as
- 17 separate as you could, given the situation?
- 18 A. Given -- there were a lot of pressures came on, it did
- 19 get a bit blurred at certain times, but that's where the
- 20 process that I've highlighted in my statement was
- important, that we stuck to the process, basically.
- 22 Q. Right. Did you ever, during the course of carrying out
- the works on behalf of MTR on the one hand and Leighton
- on the other -- did you ever receive any complaints or
- observations about the lack of separation between the

- 1 teams?
- 2 A. I think certainly there were -- nothing really from
- 3 Leighton, to be honest, I don't think. I don't think
- 4 I can recall anything in that regard. I think the
- 5 design management team from MTRC were aware of trying to
- 6 make sure that the teams stay separate as far as
- 7 possible and they were very strict in keeping control of
- 8 the working drawings and particular changes to the
- 9 working drawings which were the main way of controlling
- 10 the information that was built.
- 11 Q. Was there any specific complaint, I think that's really
- 12 what I'm driving at?
- 13 A. I honestly can't recall anything specifically on that
- issue.
- 15 Q. Okay. I think one of the reasons, one of the
- 16 explanations that both you and Mr McCrae have explained,
- 17 perhaps the necessity for close -- closer, perhaps,
- 18 closer cooperation than was anticipated at the outset
- 19 was the substantial expansion of team B's work; would
- that be right?

- 21 A. Both the expansion and also the nature of the work they
- were required to carry out changed.
- Q. In what way was the nature of the work changed?
- I understand the scope.
- 25 A. I think when we started out, primarily it was temporary

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- works design, but I think as the project evolved, then
- it became a little bit more complex. There was probably
- 3 a greater interface on the permanent works or impact on
- 4 the permanent works and therefore a greater involvement
- 5 of team A in supporting.
- 6 Q. Yes. Of course, part of the original intent, as
- 7 I understand it, was that, in relation to certain works,
- 8 team B's work would be reviewed and perhaps commented
- 9 upon by team A; is that right?
- 10 A. They would, yes.
- 11 Q. Did that really happen? I mean, was the separation
- 12 significant enough to allow that to happen?
- 13 A. I think, yes, there were certainly occasions where
- team A were not necessarily approving what team B may
- 15 have put forward.
- 16 Q. So you take the view, do you, that there was, as it
- 17 were, sufficient separation and independence between the
- 18 two teams to allow team A to take a sufficiently
- independent view about what team B were doing?
- 20 A. They could -- there were obviously discussions in
- 21 principle, et cetera, between team A and team B. The
- idea was to try to get the submissions prepared as
- efficiently as possible and as quickly as possible. So
- team A would be consulted on the principle, so it would
- 25 be hoped that the general principles would be -- so when

- 1 the submissions came in they would still have to be
- 2 reviewed to make sure they were satisfactory, and that
- 3 their guidance or whatever had been given had been
- 4 interpreted correctly.
- 5 Q. In the witness statement of Andy Leung from the MTR, he
- said that he insisted upon separation all along, from
- 7 the outset of when Atkins team A and team B were, as it
- 8 were, engaged. We've seen what Mr Buckland says, and
- 9 perhaps the truth, the reality, lies somewhere in
- 10 between?
- 11 A. Clearly, the way it was set up, the project team should
- have some visibility in who was talking to who, who was
- 13 communicating with who in terms of the email exchanges
- 14 and the like. So I think it would be a bit of a stretch
- 15 to say there was no -- a complete separation and no
- 16 discussion. I think it was actively encouraged by MTRC
- 17 because it gave a benefit of hindsight -- not hindsight,
- 18 the knowledge that team A had, to try to improve the
- 19 efficiency of how team B worked, and we got submissions
- 20 submitted on time.
- 21 Q. Had Atkins and you personally been involved in any sort
- of similar situation before, Mr Blackwood?
- 23 A. To be honest, I can't recollect myself. It's not
- an atypical -- it's not a normal situation. And
- generally you would try to stay clear of that, if you

- can. But in this particular case it was a request that
- 2 Leighton wanted to employ us because of our specific
- 3 knowledge, and I believe that MTRC understood why they
- 4 were employing team B because of that knowledge, so
- 5 therefore there was an element of that prior knowledge
- 6 being built into what Leighton were doing through
- 7 team B.
- 8 Q. Just so far as you personally are concerned, you've got
- 9 team A engaged by MTRC.
- 10 A. Yes.
- 11 Q. And then, when team B were taken on by Leighton in
- 12 2013 -- I mean, was it your mindset, your thought
- 13 process, that "I must try, as the project director, to
- 14 keep these two teams as separate as possible"? At the
- 15 outset, I mean -- I know things moved on -- but at the
- outset was that the objective?
- 17 A. I think there was an understanding that we should keep
- 18 the teams as separate as we could do, yes, and we still
- do. It's not something we started and then stopped.
- 20 Q. As I say, it seems, from what I've understood, that
- 21 because of what -- the matter we've just mentioned, the
- 22 expansion and the nature of the work, there seems to
- have been, as it were, perhaps less separation than what
- was anticipated at the outset?
- 25 A. I would agree with that.

1 COMMISSIONER HANSFORD: Mr Blackwood, I'm struggling with 2 this a little bit, because I hear your explanations and 3 I can see all the sense in what you're saying, but then if you go to paragraph 16 of your witness statement and the first sentence, I can't reconcile it with what 5 you've just said to us. My reading of -- well, I think 6 everybody's reading of the first sentence is -- "there 7 was a need throughout to keep both team A and team B 8 9 independent with no conflicts of interest". How do you 10 reconcile that with what you've just told us? I don't

understand.

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- 12 I think, as I said, that was the intent when we started, Professor, but I think as I go on to explain in the 13 following -- subsequent part of my submission, I think 14 15 it was paragraph 26, that the circumstances placed increased pressure on trying to maintain that 16 17 separation. I think people tried to do it but we also 18 tried to ensure that the decisions we made were the 19 right decisions for the project, and we tried to avoid 20 conflicts where we could, and still do. If we find something where we see a genuine conflict of interest 21 22 between what Leighton may be wanting, then we will not 23 do it.
 - COMMISSIONER HANSFORD: Thank you. So the sentence is really related to avoiding conflicts of interest rather

- 1 than keeping the teams independent, because -- it's the
- word "throughout" that I'm struggling with. If it said
- 3 there was a need at the outset to keep them independent,
- I think I'd understand it, but you say there was a need
- 5 throughout to keep them --
- 6 A. It's maybe just the way I've explained it. There was
- 7 certainly a need or a desire to maintain the separation
- 8 throughout. What I'm trying to explain is that there
- 9 was still an intent to avoid conflicts, to make
- 10 decisions for the benefit of the project, so if there
- was a decision to be made it was made based on quality,
- 12 safety and the like.
- 13 The reason that there might have been greater
- overlap that we might have hoped for or anticipated at
- the start of the project was really more for efficiency,
- 16 to try to get submissions prepared and submitted as
- 17 guickly as possible, but again without compromising the
- 18 quality or the safety of what we were producing.
- 19 COMMISSIONER HANSFORD: I don't really want to labour the
- 20 point, but then I read that Robert McCrae was design
- team leader for team A and project manager for team B.
- I will take your answer and probably stop at that point,
- but it just seemed slightly odd to me.
- 24 A. I understand.

25 MR PENNICOTT: Looking back on it, Mr Blackwood -- I know

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- the work is still going on -- but do you regard it as an entirely satisfactory position? Could things have been set up somewhat better?
- 4 A. I still don't have a huge problem with myself being project director on both, or even necessarily Mr McCrae 5 being project manager and design team leader, because of 6 who we -- I certainly know Rob McCrae and how he would 7 behave. He would behave in the right manner, 8 9 essentially. So I trust his judgment on these issues. 10 We have technical people who are producing technical solutions and we try to maintain that as separate as we 11 12 could, so essentially the technical product was produced by independent teams as far as possible. 13
- COMMISSIONER HANSFORD: I'm not questioning whether there 14 15 was actually any conflict of interest, but in my experience, it's the perception of conflict of interest 16 17 which is the biggest issue. I've been in the situation 18 you're talking about and I know how important it is to 19 not only have no conflict of interest but actually 20 ensure there's no perception of conflict of interest. That doesn't appear to be the case here, but that's just 21 22 observation.
- 23 A. I would say that given that we're having this
 24 conversation, clearly there was a perception that it
 25 might cause a problem, and therefore, in retrospect, it

- 1 probably would have been better to have totally separate
- people.
- 3 COMMISSIONER HANSFORD: Right. I'll leave it there. Thank
- 4 you.
- 5 MR PENNICOTT: But having said that -- slightly in your
- 6 defensive, if I may say so, Mr Blackwood -- you had
- 7 a situation where MTRC have taken you on first, Leighton
- 8 wished to engage you, which they did, and MTRC didn't
- 9 put up a fight about that. The only imposition by MTR
- 10 was to try to keep the teams separate.
- 11 A. Correct.
- 12 Q. All right. Could we turn to the changes, we've known
- the first and the second change.
- 14 A. Yes.
- 15 Q. I appreciate that you say you didn't have day-to-day
- direct involvement in the project.
- 17 A. That's correct.
- 18 Q. And so far as the second change is concerned, that is
- 19 the change to the detail of the top of the east
- 20 diaphragm wall, did you have, yourself personally,
- 21 contemporaneous knowledge of that change, when it
- happened?
- 23 A. No.
- Q. We know that various reports were prepared by Leighton,
- both team A -- sorry, team B and team A, and submitted

- 1 to Leighton from time to time. What, if anything, was
- 2 your involvement in those reports?
- 3 A. At the time, I wasn't involved in those reports, or
- 4 producing or reviewing them.
- 5 Q. Okay. We know that allied to those reports are quite
- a lot of emails by way of explanation and how the
- 7 reports were to be prepared, what should be put in and
- 8 what should be left out, and so forth. Again, did you
- 9 have any involvement in those email exchanges?
- 10 A. No, I wasn't copied in on those emails.
- 11 Q. Would it be right -- I'm not trying to in any sense
- diminish your role, Mr Blackwood -- but would it be
- 13 right that it's really Mr McCrae that I should be
- 14 discussing the detail of the reports, which I will get
- the opportunity to do next week?
- 16 A. Yes. Well, Rob would be more familiar with the detail
- in the reports, because he would be signing them off for
- issue. I have read them, obviously, read parts of them,
- but relevant to the change, in the preparation of this
- 20 witness statement.
- 21 Q. Yes. The thing is I don't want to, as it were, waste
- 22 everybody's time by going through it all with you and
- then going through it with Mr McCrae. If Mr McCrae, as
- 24 I understand it, looking at the emails, looking at -- as
- you quite rightly say, his name appears on the front

- sheet as the approver of the reports, although I have
- 2 noted what he said in a corrigendum to his statement
- 3 recently --
- 4 A. Yes.
- 5 Q. -- if he's the better person to look at the detail with
- then that's what I'll do. Is that what you think the
- 7 position is, that he's the man who's likely to know the
- 8 detail?
- 9 A. It depends on the nature of the questions that you're
- 10 asking. I produced the witness statement that I had
- 11 that was reflecting the Atkins position, based on
- discussions with various people and review of the
- reports, but it's entirely your decision as
- the Commission to whom you ask questions.
- 15 Q. Let me just pose an example to you. We know that there
- was a report, 4B2 and 4B3.
- 17 A. Yes.
- 18 Q. Temporary works design reports. And we know that in the
- 19 second of those reports, the famous figure 1.4 and the
- 20 famous paragraph 1.35 --
- 21 A. Yes.
- 22 Q. -- were omitted from the second report, having appeared
- in the first report. Would you know why they were
- omitted or would somebody else -- would Mr McCrae know?
- 25 A. I'm not sure even Rob would know the details, other than

- what's recorded in the email exchanges of that time, in
- 2 late May, when a decision was made to actually not
- include them in 4B2 and not formally submit 4B2.
- Q. But you don't know why there were changes?
- 5 A. I don't know why. And I can't add anything more than
- 6 what's in the email exchanges.
- 7 Q. Okay. Good. So that's that one out of the way.
- 8 There were, in those reports and in the emails, as
- 9 we know, we've seen, mention of how the concrete at the
- 10 top of the east diaphragm wall, following the change of
- detail, should be poured, and we've got "at the same
- time", "concurrently", "monolithically". Again, is that
- 13 something you were involved with at the time or is that
- something you've only reviewed for the purposes of
- 15 giving evidence to the Commission?
- 16 A. I've only reviewed it for the purposes of giving
- 17 evidence.
- 18 Q. So again it's more likely that Mr McCrae, involved with
- 19 the reports at the time and the emails at the time, may
- 20 be able to shed some light on that for us rather than
- 21 yourself?
- 22 A. Without discussing it with him, I can't really answer
- for him in that regard, but it's probably more likely.
- Q. And also we know that Mr WC Lee wrote one of the key
- 25 emails --

- 1 A. Yes.
- 2 Q. -- and we'll obviously get the opportunity to discuss
- 3 that email with him at some point.
- 4 Good. All right. In the light of that, can I just
- 5 have one moment to see where we might get to.
- 6 Mr Blackwood, have you had any reason to consider in
- 7 detail PNAP 68?
- 8 A. No.
- 9 Q. Mr Blackwood, I think I'm right in suggesting that when
- DAmS, as we know it, DAmS 310 was issued in August
- 11 2015 -- again, no contemporary knowledge of that issue
- 12 either?
- 13 A. I wasn't involved in that.
- 14 Q. You weren't involved in that either? All right.
- 15 Can I then just ask you a few questions about the
- 16 updating of working drawings and as-built drawings. In
- 17 terms of producing working drawings, that would be the
- 18 responsibility of Atkins team B -- team A?
- 19 A. Team A.
- 20 Q. And would Atkins team B have any involvement in the
- 21 production of working drawings?
- 22 A. They shouldn't have an involvement in the production of
- them. They may have helped produce drawings for
- 24 Leighton to submit to reflect what they wanted to have
- as a change incorporated into the permanent design, and

- once that was accepted by MTRC and necessarily approved
- by BD, it would go on the working drawings would be my
- 3 understanding.
- 4 Q. That's the general position. In terms of more specific,
- 5 again, with regard to the second change, which I'm not
- 6 looking at --
- 7 A. Yes.
- 8 Q. -- with you in detail, that was essentially
- 9 a contractor's generated design detail change. Who
- 10 would bear responsibility for producing the working
- drawings in that situation?
- 12 A. For the second one, I question whether anybody generated
- 13 that one, to be honest. I don't think either team B or
- 14 team A generated that.
- 15 Q. Well, no. What happened was -- let's just assume, let's
- make a couple of assumptions.
- 17 A. Okay.
- 18 Q. We've heard from the MTRC and Leighton witnesses that
- 19 that change was brought about by discussions by the
- 20 construction management team on behalf of MTR and the
- 21 construction management team of Leighton.
- 22 A. Yes.
- 23 Q. And so let's assume that that's how it came about.
- 24 A. Okay. Yes.
- Q. What role, if any, do you believe Atkins should then

- have played in producing some form of design, working
 drawings or otherwise, given that situation?
- 3 What I would have expected in that situation, if the two 4 construction teams had agreed they were going to make a change -- it would be really in Leighton's court to 5 actually initiate that process. They would have to 6 either submit a TQ, probably a TQ to team B, "We want to 7 change to this arrangement; can you give us supporting 8 9 information necessary to submit it to MTRC formally to 10 get agreement to that change?" That TQ, probably under 11 a CSF, would go to MTRC construction team, who in turn, 12 if they were happy with it, would submit it to the design management team, who again, if they were in line 13 and happy with it, would engage team A to review and be 14 15 satisfied that it was okay.

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If that change, if it was a minor thing, then maybe it would just be issued as a DAmS and picked up in the next issue of the working drawings that would go out. If it was deemed to be a little bit more significant than that, then there may be discussions with BD to understand how it should be addressed, whether there should be a BD amendment submission -- submission to BD to get the amendment agreed. But whatever happens, if it's accepted by MTRC, there should be at least a DAmS issued, as I think you mentioned 310 before, would be

- issued saying, "This is what you should be building
- on site."
- 3 I think the key thing is when they are working
- on site, they should have a record of what they're
- 5 actually building, and have drawings showing what they
- 6 should be building too. And we would have -- team A
- 7 might have a role in that DAmS issue and the
- 8 amendment -- any changes to the working drawings in that
- 9 process. But as I say, my understanding, that's
- 10 hypothetical just now.
- 11 Q. Okay. But assuming this consensus/agreement between MTR
- and Leighton to have this change of detail at the top of
- the east diaphragm wall, for Atkins --
- 14 A. Can I just understand, that's a consensus between the
- 15 construction teams?
- 16 Q. That's my understanding.
- 17 A. But you're not saying it's a consensus between the
- 18 design team --
- 19 Q. I'm not.
- 20 A. -- and everybody? Because I think you've got to be
- 21 quite distinct on that.
- 22 Q. And I thought I was.
- 23 A. Okay. I was just trying to clarify it.
- Q. Absolutely. The construction teams, both MTR and
- Leighton, which I think was the premise upon which I put

- 1 the situation, now, let's assume that that's the case.
- 2 A. Yes.
- 3 Q. As I understand it, you would say Atkins team B might be
- 4 involved in producing working drawings, but only in the
- 5 circumstances where Leighton had asked them to do so; is
- 6 that right?
- 7 A. Yes.
- 8 Q. Have I got this right: so far as the personnel in Atkins
- 9 team B are concerned, they wouldn't be based on site?
- 10 A. No. They would have to be advised that there was
- 11 a change that the contractor wanted to make. The
- 12 contractor has to indicate he wants to make that change,
- because he has a responsibility to do that. Because the
- 14 contractor -- theoretically it might have been agreed --
- in my understanding, it might have been agreed with the
- 16 construction team, but it would still be an issue that
- 17 would have to be started by the contractor to follow the
- 18 process, we said: Leighton team B, Leighton construction
- 19 management team; design management team, team A, and
- then a decision made and what you do after that, whether
- it's accepted or not.
- 22 O. Right.
- 23 A. So that's why the process is so important. Everybody
- gets to see what's going on, everybody gets on to the
- same page, and there's nobody left out of the loop,

- 1 basically.
- 2 Q. What perhaps appears to have happened -- obviously we've
- 3 not quite got to the end of all the evidence yet -- but
- 4 what appears to have happened is nobody got that ball
- 5 rolling, nobody kicked it towards Atkins team B, and
- therefore the process didn't seen start.
- 7 A. Again, based on the evidence I have seen and read,
- 8 that's my understanding of the situation, or my
- 9 interpretation, I should say, of the situation, that the
- 10 ball never got rolling and it was never picked up
- on site, "Why is that not happening?"
- 12 Q. Yes.
- 13 A. There's a check and a balance. You need Leighton to
- 14 start it but you're also still building it, so you need
- something that says, "What am I building to?"
- 16 Q. Yes. And even more so, I would imagine, you would
- 17 agree, Mr Blackwood, in circumstances where, as we know
- 18 now, the change is not uniform, that we've got certain
- 19 details in certain areas and other details in other
- 20 areas -- even more so that one is keeping tabs on what
- is actually being constructed?
- 22 A. It certainly makes the as-built drawing production
- easier if you've got a set of working drawings that are
- up to date and record most of the changes you have.
- 25 It's a good foundation for the start.

- 1 Q. As I understand, it is really only earlier this year
- 2 that Atkins team B have been asked to participate in the
- 3 putting together of the as-built drawings?
- 4 A. We received an instruction basically from Leighton,
- 5 I think it was 12 June, to assist them with the
- 6 preparation of the as-built -- amendment drawings, as it
- 7 is at this stage.
- Q. Finally from me, can I ask you to go to paragraph 99 of
- 9 your witness statement, please. We are in that part of
- 10 the statement, Mr Blackwood, where you are dealing with
- 11 the second change.
- 12 A. Yes.
- 13 Q. I just want to understand paragraph 99. You say:
- "Typically, the process on site to address such
- 15 changed details would be dealt with by TQ or CSF."
- As you've just mentioned.
- 17 "This could then have been reviewed and assessed and
- 18 a decision taken on whether it was minor and form part
- of the final amendment submission or a separate
- 20 submission had to be made to BD. In either case a DAmS
- or revised working drawing can be issued."
- 22 A point you've also made. Then you say this:
- "The issue in this case is further complicated by
- 24 the change to the D-wall which would require
- an amendment submission."

- 1 When you say a "change to the D-wall", are you
- 2 referring down to the trimming down of the concrete by
- 3 450 millimetres or so?
- 4 A. That's my understanding.
- 5 Q. With your experience in Hong Kong, is that something
- 6 that you take the view that an amendment submission
- 7 ought to have been made before it was instigated or
- 8 implemented?
- 9 A. Let me preface my response by saying I'm not
- a structural engineer and I'm not particularly
- 11 experienced in the ways of the Buildings Department.
- But, with my limited the knowledge, looking at it, it
- 13 seems a fairly minor change to the D-wall and I don't
- think it really affected its structural ability to
- 15 perform its ultimate function.
- 16 But I believe, because of the nature of the work, as
- 17 I understand it from colleagues, you would need
- 18 an amendment submission. The question is whether you
- 19 need to do it before or you can do it in parallel, but
- it was not raised or discussed at that time.
- 21 Q. Okay. And it's not something you feel comfortable about
- 22 taking a view on?
- 23 A. I'm not an expert in that area and it would be wrong to
- give a view on it because it would be misleading, or
- could be misleading.

- 1 Q. Understood. Right.
- 2 Thank you very much, Mr Blackwood. That's all
- 3 I have for you.
- 4 A. Thank you.
- 5 MR SO: No questions from China Technology.
- 6 Cross-examination by MR CHOW
- 7 MR CHOW: Mr Chairman, there are some questions from the
- 8 government.
- 9 Good afternoon, Mr Blackwood.
- 10 A. Good afternoon.
- 11 Q. My name is Anthony Chow and I represent the government.
- Originally, I only had one or two questions for you
- in relation to one specific issue, and that is whether
- 14 prior consultation with the Buildings Department is
- 15 required to effect the second change. Mr Pennicott has
- 16 covered one of my questions already, so I will just
- 17 concentrate on the next one. The relevant part of your
- evidence is in paragraph 98.
- 19 Mr Pennicott has taken you to paragraph 99, but
- 20 before that, in paragraph 98, you also express a view on
- 21 whether the change was a substantial change.
- The way I see how you arrange the contents into two
- separate paragraphs, am I right to say that in
- 24 paragraph 98, when you talk about "not a substantial
- change", you were only talking about the fact of

- 1 replacing the couplers with straight bars; right?
- 2 A. I think I was really referring to, essentially, the
- 3 change from the coupler arrangement to the straight
- 4 through-bars, and the consequences of that. It
- 5 performed a similar design intent, and on its own was
- 6 not, I believe, a significant change.
- 7 Q. I see. So paragraph 98 only refers to part of the
- 8 second change which involved replacement of couplers
- 9 with through-bars.

- Now, subparagraph 98.4, when you say, "It need not
- 11 necessarily be submitted to BD, but this would be
- a decision for the competent person ('CP') to make" --
- now, this is the part I am not entirely clear as to what
- 14 you mean. Do you mean that for changes like replacing
- 15 the couplers with straight bars, because the nature is
- 16 not substantial, then the BD would give the final say to
- 17 the competent person as to whether prior consultation
- 18 would be required? Is that what you are trying to say?
- 19 A. Sorry, I'm not too clear on your question there.
- 20 I think what I was trying to suggest there was that,
- in its own way, it's not a major change. It's a fairly
- 22 minor change; the design intent is not changed. The
- scale might be quite significant, because of the extent
- on the project, but it's the sort of thing, if it was
- raised, then you would review the proposal and you would

- 1 obviously have a discussion between MTRC design
- 2 management and, if necessary, consult the competent
- 3 person to find out whether that should be made as
- 4 a submission to BD.
- 5 Does that answer your question? I'm not sure if
- 6 I interpreted it correctly.
- 7 Q. Right. So, in other words, for changes of this nature,
- 8 you express no view as to whether such change would
- 9 require prior consultation or acceptance by BD before
- 10 effecting the change; is that --
- 11 A. I think -- to follow on from the response I gave earlier
- on the process, hypothetically, if it had come through
- 13 the process, I think it would have gone to design
- 14 management team, it would have gone to team A, and there
- 15 would have been some discussion, "What do we do with it?
- 16 Is it a significant enough change that we need to
- 17 consult with BD? Do we have to make a submission to
- 18 BD?"
- 19 I think you should recognise that in parallel with
- 20 what was actually happening on site, we had gone
- 21 a different way. We were making submissions to BD based
- on a different detail, and clearly that's not a nice
- position to be in. So I don't know -- I would have
- 24 thought that if we had that information at that time, we
- would have been consulting and speaking to BD about it

- 1 and gone forward with the revised detail.
- Q. Okay. Thank you very much, Mr Blackwood.
- 3 A. We seemed to depart at some point.
- 4 MR CHOW: I have no more questions for you.
- 5 Mr Chairman, I have no more questions.
- 6 CHAIRMAN: Thank you.
- 7 MR BOULDING: Nothing from MTR.
- 8 CHAIRMAN: Thank you.
- 9 MR SHIEH: Nothing from Leighton.
- 10 CHAIRMAN: Thank you.
- 11 Re-examination by MR CONNOR
- 12 MR CONNOR: Just very briefly then, if there are no other
- 13 questions for Mr Blackwood.
- 14 Mr Blackwood, thank you very much. Particularly
- 15 returning to the questions from the professor and in the
- 16 light of all of the review of documents that you've
- 17 carried out for the purposes of your statement to the
- 18 Commission and in preparation for today, I think you've
- 19 said quite fairly that the intent at the outset in
- 20 relation to complete separation of team A and team B did
- 21 become, as you put it, a little bit blurred because of
- the circumstances which Mr Pennicott described to you.
- 23 A. Yes, that's correct.
- 24 Q. But I think from your evidence you distinguish that from
- 25 the idea of conflict of interest, which, I think your

- 1 evidence is, did not become blurred?
- 2 A. No, I don't believe that happened.
- 3 Q. Prior to the question being raised of you in relation to
- 4 the Commission of Inquiry, has it ever been suggested to
- 5 you that such a conflict of interest existed?
- 6 A. I'm not aware of any suggestion there.
- 7 Q. And as far as the process is concerned that you
- 8 described to the Commissioners, that is really
- 9 a safeguard for the purposes of ensuring that conflict
- 10 is avoided?
- 11 A. It's one of the safeguards or the safety nets that you
- have, that team B reported to the design management team
- in Leighton and team A reported to the design management
- 14 team in MTRC. They are both experienced and well aware
- of what we were doing, basically, and therefore could
- 16 take a view if they saw anything that they thought was
- 17 unfair or was in conflict with their interests. As
- I say, I don't think that was an issue.
- 19 Q. And having reviewed all of the papers that you have done
- for the purposes of the Commission of Inquiry, are you
- 21 satisfied, largely, that the process intent has been
- 22 met?
- 23 A. I think in the main it has, and I think if you listen to
- the evidence that's been given by other witnesses, they
- seem to support that view as well, Mr Buckland in

- particular, and also I think -- I seem to remember

 Mr Chan did a similar thing.

 I would also add that I don't think it was a factor

 in the issues before the Commission just now, in terms
- 6 made. It was not whether we were on team B and also
- 7 team A; I think that wasn't a factor.
- 8 MR CONNOR: Thank you very much. Unless the Chairman or the 9 professor has anything further.

of the cutting of the rebar or the change that has been

- 10 Questioning by THE COMMISSIONERS
- 11 COMMISSIONER HANSFORD: Yes, I do. There's one area I'd
- 12 like to get your input on, you can help me with,
- 13 Mr Blackwood. This is about designers having site
- 14 presence or not.
- 15 A. Yes.

- 16 COMMISSIONER HANSFORD: In your paragraph 14, 14.1 and 14.2,
- 17 of your witness statement -- perhaps we can put it on
- 18 the screen, J59 -- you tell us in both of those that
- 19 team A was not required to supervise any of the site
- 20 works and only relied on information from MTR, and
- 21 team B did not have any on-site presence and relied only
- 22 upon information provided by Leighton?
- Why was that?
- 24 A. It's a good question.
- 25 COMMISSIONER HANSFORD: Thank you!

- 1 A. It seems to be the process followed on MTRC projects.
- 2 It's slightly -- if I can digress a little bit -- when
- 3 we actually do the detailed design, we sit in the design
- 4 office with MTRC's design management team, with the
- 5 construction team, with members of their operations
- team, to try to get an integrated design, but as soon as
- 7 construction starts, we have a design liaison
- 8 representative on site who is almost like a postbox back
- 9 to the design team in head office. I think it's a good
- 10 question, particularly for jobs as complicated as this
- one, where you are likely to get change once you get
- on site. I think in a simple job it probably works
- quite well, but I think in projects where maybe there's
- 14 a degree of complexity or issues that may arise on site,
- 15 having some design support closer to site might be
- 16 something that could be considered in the future.
- 17 COMMISSIONER HANSFORD: That's helpful, because we're
- 18 certainly looking at what perhaps ought to be done in
- 19 the future.
- 20 A. Yes.

- 21 COMMISSIONER HANSFORD: But I'm still puzzled by how can the
- 22 designer be sure that his design intent is implemented
- in the works if the designer has no visibility of what's
- happening in the works?
- 25 A. I think you're totally reliant then on the drawings

- 1 being up to date and the construction being built 2 according to those drawings, and also that the quality 3 is there in terms of what's built. So you are dependent on the supervision on site, both the contractor and also the construction team on site supervising it. 5 COMMISSIONER HANSFORD: So, a little bit of a hypothetical 6 question, so forgive me --7 CHAIRMAN: Sorry, I do apologise, I'm interrupting you --8 9 I didn't quite get the answer there. Sorry, Peter. 10 COMMISSIONER HANSFORD: No, no. In terms of ...? 11 12 CHAIRMAN: Well, how does the design team know that what in fact is being constructed on site, especially in 13 a complex, hard-pressed construction -- how does that 14 15 design team know that it's being built according to the design absolutely? 16 17 You don't know. You're reliant on the efforts of 18 others, basically. You are reliant on the site team 19 supervising it to ensure that it's constructed according 20 to your drawings, and obviously the contractor constructing it to the quality that's specified and 21 22 shown on the drawings. But you don't have any visible 23 way of checking. There's not even an audit or
- a quarterly or a monthly audit to see what you might do.

a monitoring thing where you go out and do -- I'll do

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- 1 There's no requirement for that.
- 2 CHAIRMAN: No audit process at all?
- 3 A. No audit process, no.
- 4 COMMISSIONER HANSFORD: My hypothetical question to you was
- 5 going to be that if you were asked in future to carry
- 6 out this type of work and told -- and you will not have
- 7 a site presence, is that something you feel you could
- 8 comfortably do?

- 9 A. To be honest, I think we exercised the responsibilities
- we had under our contract. What I'm saying -- whether
- it's me or is it the right thing to do, could we improve
- how we actually oversee and deliver those projects?
- 13 There are different ways you can actually do it, but
- 14 certainly that would be a good starting point, whether
- it be people sitting on site or a design team sitting
- on site so they can actually go and liaise more closely
- 17 with the construction and design management teams to
- 18 make sure you don't have a situation where something's
- 19 been built that you don't know about, it's easy for
- people to go and say, "I want to do this, is that okay?"
- 21 That might be one thing, that is one option. The other
- is you do routine audits. You go and you have
- a specific requirement, "You must visit the site",
- 24 whatever you decide, it's once every week, once every
- 25 two weeks, once a month or whatever it is, and do

- specific audits just to check on what's been built.
- 2 But the industry as a whole should be trying to be
- 3 better than that and that people work together and do
- 4 the job that they're supposed to be doing, basically.
- 5 COMMISSIONER HANSFORD: Yes. I'm interested in moving the
- 6 whole industry.
- 7 A. I think -- and to be fair, in this particular project,
- 8 I think MTRC were trying to move the industry forward.
- 9 They adopted a target cost contract, which -- they
- 10 recognised the risk and the complexity on the project,
- 11 particularly working within the operating railway
- 12 environment and the challenges that that might pose as
- 13 we moved into the construction phase. So they engaged
- 14 at an early stage with the contractors to try to find
- 15 the best way they would want to construct it so we would
- 16 try to minimise change once we got on site, which is
- 17 obviously a key challenge, or a key objective. I just
- think that we need to be better at it. You know,
- 19 there's checks and balances and you put in more layers
- of oversight but that just makes it less efficient.
- 21 It's just having -- doing what you're supposed to be
- doing. And processes are important and you follow the
- process, and I think maybe on one or two occasions here
- 24 we didn't follow the process.

25 COMMISSIONER HANSFORD: But nevertheless, on this project,

- 1 you were not required to have an on-site presence at
- 2 all; correct?
- 3 A. Not to supervise the works but we had design liaison
- 4 representatives on site who would be a vehicle for
- 5 liaising with the design teams back in the head office,
- 6 but not to supervise the works.
- 7 COMMISSIONER HANSFORD: Were you prevented from access to
- 8 the site?
- 9 A. No. I don't believe we were prevented. But it wasn't
- 10 a requirement to do it is what I'm saying.
- 11 COMMISSIONER HANSFORD: Okay.
- 12 A. And, you know, you've got to remember it's only one or
- 13 two people. They have a pretty heavy workload. So they
- 14 are not going out, swanning around, looking at what's
- going on elsewhere. They're pretty demanding task.
- 16 COMMISSIONER HANSFORD: Thank you. That helps me.
- 17 CHAIRMAN: Good. Thank you very much indeed. You have been
- 18 of great assistance. Thank you. Your evidence is now
- 19 completed.
- 20 WITNESS: Thank you very much.
- 21 CHAIRMAN: Thank you for coming out.
- 22 (The witness was released)
- 23 MR CONNOR: Thank you very much, Mr Blackwood.
- Subject to Mr Pennicott, the next witness is
- 25 Mr Wilson Sung who is not due to appear, by arrangement,

until after lunch, and I think there's also a little bit
of set-up that the solicitors for the Commission team
need to get underway for the PowerPoint presentation
that I mentioned earlier on.

So, subject to any views from Mr Pennicott or my friends or yourselves, sirs, I would have thought it might be a good time to rise and we might start with Mr Sung as and when we are ready.

MR PENNICOTT: Sir, I thoroughly agree with that.

Sir, can I just mention so that everybody is aware:

Mr Sung was involved with Mr Blackwood in the

presentation to Prof Nethercot back in July. Whilst we
have not troubled Mr Blackwood with his part of the

PowerPoint presentation, we are going to trouble

Mr Sung. Indeed, whilst it might appear a bit lazy, for
which we apologise, we are actually going to ask Mr Sung

to, as it were, talk us through and give us
a presentation of the last five or six slides, I think
it's slides 13 to 18, which we understand will take
about 15 to 20 minutes. So that's our proposal.

He has no contemporary knowledge of matters in any event. He wasn't engaged, I think, until sometime earlier this year. However, he does have knowledge about the design of the works itself and he can give a good explanation by reference to the PowerPoint

- 1 slides.
- I'm told one of the reasons we're doing this is
- because the Commission's expert, Prof McQuillan, thinks
- 4 it would be good to have an explanation of those slides,
- 5 it would assist him and it perhaps would assist other
- 6 experts as well if that presentation is given.
- 7 So with that introduction, that's what's going to
- 8 happen after lunch.
- 9 CHAIRMAN: It's these documents here? (Indicating).
- 10 MR PENNICOTT: That's right, sir, yes.
- 11 CHAIRMAN: There's a fascinating one about three-quarters of
- 12 the way through:
- "Step 2: Plaxis analysis".
- 14 Quite what "Plaxis" is, I don't know.
- 15 COMMISSIONER HANSFORD: I'm very much looking forward to
- that part.
- 17 MR PENNICOTT: You're probably the only one who's going to
- 18 understand it.
- 19 CHAIRMAN: It looks very complex.
- 20 MR PENNICOTT: We are all going to have to be wide awake
- 21 this afternoon.
- 22 CHAIRMAN: Good. So we will break for lunch and return at
- 23 2.15.
- 24 MR PENNICOTT: Yes, sir. Thank you very much.
- 25 CHAIRMAN: Thank you.

- 1 (12.50 pm)
- 2 (The luncheon adjournment)
- $3 \qquad (2.19 pm)$
- 4 MR CONNOR: Good afternoon, sir. Good afternoon, Professor.
- 5 The second witness for Atkins is Mr Wilson Sung. He is
- 6 Mr Chi Man Sung, and he will be giving -- Mr Wilson
- 7 Sung, good afternoon.
- 8 WITNESS: Good afternoon.
- 9 MR CONNOR: Would you please just confirm that you are
- 10 Mr Chi Man Sung?
- 11 WITNESS: Yes.
- MR CONNOR: Also known as Wilson Sung?
- 13 WITNESS: Yes.
- 14 MR CONNOR: I think you are going to give your evidence in
- 15 Cantonese?
- 16 WITNESS: Yes.
- 17 MR SUNG CHI MAN, WILSON (affirmed in Punti)
- 18 Examination-in-chief by MR CONNOR
- 19 MR CONNOR: Mr Sung, I think as we have seen from your
- statement, you joined Atkins China in about July 2017?
- 21 A. Yes.
- 22 O. You are the head of structures for Asia Pacific at
- 23 Atkins China Ltd?
- 24 A. Yes.
- Q. Would you please have on the screen before you your
- 26 witness statement which you have prepared for the

- 1 purposes of this Commission, which is at J6/23. That
- is, for the record, at page J4535.
- 3 You see that's the first page of your statement,
- 4 Mr Sung. Do you recognise that?
- 5 A. Yes.
- 6 Q. If you would be taken, please, to page J4541 of the same
- 7 bundle. That is page 7 of your witness statement, and
- 8 we see a signature there. Is that your signature?
- 9 A. Yes.
- 10 Q. Just for completeness, I think there's one attachment to
- 11 your witness statement, which appears at J4542. Thank
- 12 you. And if you move to page J4543, I think that is
- 13 your CV?
- 14 A. Yes.
- 15 Q. Would you please, just to complete the formality,
- 16 confirm that that witness statement, with its
- 17 attachment, represents your evidence to this Commission?
- 18 A. Yes, I confirm.
- 19 Q. Would you please confirm that what you say in your
- statement is true to the best of your knowledge and
- 21 belief?
- 22 A. Yes, confirm.
- 23 Q. Just while we have your statement to hand, if we might
- go back to it, please, at J4535. Thank you. I think
- you confirmed -- if you would go to paragraph 3 of that
- 26 statement, which is on the same page at 4535, that you

- 1 became involved in the Hung Hom Station Extension under
- 2 the Shatin to Central Link Project in June 2018.
- 3 A. Yes.
- 4 Q. So your involvement is in very recent times?
- 5 A. Yes.
- 6 Q. And your role is to assist the contractor, Leighton, as
- 7 team B, in providing structural design support as
- 8 required?
- 9 A. Yes.
- 10 Q. If you move on, please, through your witness statement,
- I think that what we find later on in your statement, at
- page J4540, is some involvement that you had as covered
- in paragraphs 36 to 39 in a presentation to Prof David A
- 14 Nethercot?
- 15 A. Yes.
- 16 Q. It is right, I think, that this is a presentation which
- you gave obviously after June 2018?
- 18 A. Yes.
- 19 Q. And you gave that in your capacity as head of structures
- in Atkins?
- 21 A. Yes.
- 22 Q. It was a presentation in which you co-presented with
- 23 Mr John Blackwood?
- 24 A. Yes.
- Q. For the assistance of the Commission, if you might have
- before you bundle J4 at page J3323, we see

- 1 a presentation set out there in PowerPoint form; is that
- 2 so?
- 3 A. Yes.
- 4 Q. Is this the PowerPoint presentation with notes which
- 5 form the presentation which you and Mr Blackwood gave to
- 6 BD?
- 7 A. Yes.
- 8 Q. Thank you. In particular, if you turn to page J3335,
- 9 you will see at that slide there is an opening title
- 10 slide headed "Modelling approach"; do you see that?
- 11 A. Yes.
- 12 Q. Is this the beginning of the section of presentation
- 13 that you gave?
- 14 A. Yes.
- 15 Q. Did that part of the presentation that you gave run up
- to and include page J3340?
- 17 A. Yes.
- 18 Q. Thank you very much for that, Mr Sung. The reason for
- 19 taking you to that particular section is that when my
- 20 learned friend Mr Cheuk asks you some questions in just
- 21 a moment, I think he will want to ask you a bit more of
- 22 that, but I think you have now identified to the
- 23 Chairman and to Prof Hansford that part of the
- 24 presentation in which you were involved.
- 25 A. Okay.
- 26 Q. So thank you very much. I have no further questions for

- 1 you at this stage. But would you please stay where you
- 2 are. In a moment, my friend Mr Cheuk will ask you some
- 3 questions. Then he may well be followed by some other
- 4 of my fellow counsel in this room with some questions.
- 5 The Chairman and the professor may have some questions
- for you during that section, or indeed at the end, or at
- 7 any time, and I'm sure you will do your best to assist.
- 8 A. Okay.
- 9 MR CONNOR: Thank you. Please stay where you are.
- 10 Examination by MR CHEUK
- 11 MR CHEUK: Good afternoon, Mr Sung. My name is Calvin
- 12 Cheuk, I'm one of the counsel for the Commission.
- I will have some questions for you.
- 14 Is it correct that on 12 July 2018, you with
- 15 Mr Blackwood and Mr Wu went to the BD to do
- 16 a presentation to BD's then adviser, Prof Nethercot?
- 17 A. Yes.
- 18 Q. And probably Mr Connor has explained to you one of the
- 19 reasons why we would like you to be here today is really
- 20 to explain a bit more your presentation that you did on
- 21 that particular day.
- 22 A. Okav.
- 23 Q. We glimpsed through the slides, and one of the reasons
- 24 we ask you to be here is that the Commission's expert,
- 25 Prof McQuillan, would like you to explain a bit more in
- detail so that it can be captured in the transcript

- 1 which he will be able to read in preparing his expert
- 2 report.
- 3 A. Okay.
- 4 Q. That's the background that the Commission will require
- 5 your assistance.
- 6 A. Okay.
- 7 Q. Being not any sort of engineer at all, when I went
- 8 through the slides, I can see a lot of things I don't
- 9 really understand, so please -- what I propose to do is
- 10 that I will let you run your own course, but I might
- interject if I understand I have questions for you,
- I might ask you to stop for a while and have one or two
- 13 questions. I don't anticipate it to be a lot.
- 14 A. Okay.
- 15 Q. Then, after your presentation, I might have some other
- 16 questions in relation to the preparation of as-built
- 17 records. That will be the overall structure of my
- 18 questions. Is that okay?
- 19 A. Okay.
- 20 Q. So I understand you have already given the PowerPoint
- 21 slides to the Commission, so there will be a lady
- 22 sitting over there who will be in control of the
- PowerPoint slides. You can have your own course but you
- 24 might need to give the express direction to the operator
- of the slides so that she can follow your instruction.
- One last point I might -- if I may ask you to bear

- 1 in mind is that I can see a lot of technical language in
- 2 the slides.
- 3 A. Yes.
- 4 Q. So please, you can assume we don't understand those
- 5 technical language, and if you may, you might try to
- 6 assume that we don't know about it and try to take it
- 7 slowly.
- 8 A. Okay.
- 9 Q. If I may ask you to take that in mind.
- 10 A. Okay.
- 11 Q. I understand Mr Connor asked me to refer you to J3340.
- 12 That is the last page of your presentation.
- 13 A. Mm-hmm.
- Q. I'm told it might be a good starting point for your
- 15 explanation. So feel free to start with that slide and
- 16 then you can change your course of presentation as you
- 17 wish to do so.
- 18 A. Okay,我哋可以睇J3335,okay,我嗰日就去到BD做presentation嘅時
- 19 間就會由呢張slide開始講起嘅。Okay,其實喺我哋做工程入面,其實...
- 20 Q. Wait. You can look at -- the screen in front of you,
- 21 that will be the screen that everybody in this room will
- be following. So, while you have a hard copy next to
- 23 you, can you also bear in mind that we are looking at
- the screen so if you can look at the screen and pause
- 25 there until the screen shows the right page, that would
- 26 be very helpful.

Okay,好。我哋個presentation開始就係第一個到我講嘅時間就係講緊一個我哋做一個structure modelling嘅approach。喺我哋做工程入面其實有唔同嘅structure modelling嘅software,喺呢個project入面,我哋有利用到幾個software去做呢個structure嘅一啲simulation嘅。

我哋可以go to next page。首先其實喺EWL slab,即係東西走廊 嗰塊樓板,其實喺入面就有好多嘅opening。我哋睇番張圖,我哋見到紅色 嘅位置其實就係嗰個樓板嘅表面嚟嘅,呢個係一個平面圖嚟嘅。另外喺白色 嘅地方,其實大家會見到其實係會有一啲叫做opening嘅,因為喺EWL slab 會有唔同嘅結構會喺呢塊樓板度開窿,包括可能有啲軾、escalator或者樓 梯。

因為喺個樓板度開咗窿之後,就會對嗰個結構,呢塊樓板嗰個stiffness 有影響嘅,會減低咗個stiffness,所以我哋要做一啲simulation去model 番呢個咁嘅effect,所以我哋就利用咗一個叫做SAP2000嘅model,係喺BD 亦都係一個approved嘅model嚟嘅。

喺呢個model入面,我哋會先擺咗一啲loading落去,擺咗一啲--上面一行loading,同埋擺咗一個--喺個bar--喺上面同下面都會放咗一個support嘅。放咗之後,我哋亦都會apply番一個我哋叫做unit moment嘅reaction force落去。其實呢個reaction force其實--同埋一個axial force落去,有兩個axial--一個unit axial force,一個unit嘅moment force,會擺番落呢個modelling入邊。

個用途其實就係想睇下喺under呢個咁嘅情--即係開咗窿嘅情況下之後, 呢塊樓板有咩嘢structural behaviour,從而去搵番個stiffness出嚟。 呢個model主要就係做呢一件事嘅。

1 喺我哋area B同C入面,其實我哋斬開咗有五個model,因為根據個 chainage,就去睇番究竟唔同chainage嗰個時候,個樓板越開得窿多嘅 2 時間對個stiffness嘅影響就會越大嘅。 3 4 Q. You may carry on. 5 MR SHIEH: I'm sorry to interject but I heard what Mr Cheuk 6 said to the witness. Maybe others understand. I have 7 A Level physics but I had difficulty. As I said to 8 Leighton's own witness, perhaps I can say, "Imagine 9 explaining it to a five-year-old child", because 10 otherwise -- for example, those who have to physics wouldn't know what "moment" means. I know but I don't 11 12 know whether others do. CHAIRMAN: I would like to know. 13 14 COMMISSIONER HANSFORD: Sorry, while we're on this subject, 15 I have some questions on this slide. Is the intent that 16 we wait until the end of the whole presentation and go 17 back to our questions, or is the intent that we take questions slide by slide? I'm asking you but maybe 18 19 I should be asking Mr Cheuk: which do you prefer? 20 MR CHEUK: I think it would be better if, Professor, you 21 have any questions just ask at the moment rather than 22 wait until at the end, because it might be difficult for 23 us to trace all the slides after we finish the whole 24 thing.

COMMISSIONER HANSFORD: Okay. That's fine. Perhaps we will

start with the Chairman and Mr Shieh's questions about

25

- 1 what a "moment" is.
- 2 MR CHEUK: Let me try to explain a little bit to this
- 3 witness first.
- 4 Mr Sung, thank you. Although I also have an A Level
- 5 in physics but I do also have difficulty understanding
- 6 everything. Can I ask you two points. First of all,
- 7 actually, what you say will be captured in the
- 8 microphone and then translated. There will be some
- 9 delay in translation. So if I may first ask you to slow
- down.
- 11 A. Okay.
- 12 Q. Because I can see there's difficulty in translating
- 13 everything, in particular given the technical language
- here. That's point number one, if I may ask you to bear
- 15 that in mind.
- 16 Point number two is that, again, as Mr Shieh has
- indicated, if you can try to use even more simple
- 18 language to explain, and I might also interject to
- 19 explain my understanding to you, to see whether that can
- 20 help everybody.
- 21 A. Okay.
- 22 Q. I hope that might help everyone to understand what this
- 23 presentation really means.
- 24 A. Okay.
- Q. Let's start from this first slide. As I understand it,
- 26 the red -- what we are looking at is a piece of EWL

- 1 slab?
- 2 A. Yes.
- 3 CHAIRMAN: From the top or the side?
- 4 MR CHEUK: From the top. From the top; is that correct?
- 5 A. Yes, correct.
- 6 COMMISSIONER HANSFORD: It's a plan view?
- 7 MR CHEUK: It's a plan view, yes. The red part is showing
- 8 the actual slab, and there's something empty, white
- 9 part, in the middle, which is an opening?
- 10 A. Yes.
- 11 Q. What you are telling us is that the slab contains
- various openings at various locations, and these
- 13 openings will reduce the stiffness of the slab. What
- this slide shows is using a computer software or
- programme, SAP2000, to test or to try to simulate --
- 16 A. Simulate.
- 17 Q. -- the actual performance of the slab or its stiffness,
- 18 given there are some openings in the middle.
- 19 COMMISSIONER HANSFORD: Just on that point, when you were
- 20 talking about the openings, Mr Sung, you said they were
- 21 drilled. Were they drilled? I thought they were cast
- in place. I thought the openings were made as part of
- the original casting of the concrete rather than
- 24 drilled.
- 25 A. No.
- 26 COMMISSIONER HANSFORD: They are drilled, are they?

- 1 A. I think maybe a translation problem.
- 2 MR CHEUK: I think, Professor, your understanding is
- 3 correct, they were it is cast in place.
- 4 COMMISSIONER HANSFORD: That would make more sense to me.
- 5 A. Yes.
- 6 CHAIRMAN: And what's the blue line?
- 7 MR CHEUK: That I don't understand, frankly.
- 8 CHAIRMAN: And what's the little mauve line with a white
- 9 opening at the top?
- 10 A. 首先,個藍色嗰個其實係一個寫法,其實因為佢會--喺個model入面,佢哋
- 11 會set一啲--我哋叫做set一啲--我哋叫--我哋術語叫做呢啲"strip
- 12 width"嘅,其實會係定番每個strip width嗰個size。呢個藍色呢
- 13 個就係講緊嗰--其實都係同一塊EWL slab嚟嘅其實,就唔係話有咩
- 15 Nethercot嘅時間就highlight番畀佢聽我哋會有鎅strip呢個咁嘅
- 16 approach,咁解。另外講到喺上面--sorry。
- 17 MR CHEUK: Sorry, can I stop you. What you are telling us
- is the blue part is part of the slab?
- 19 A. 係。
- 20 Q. And you highlight that blue part was for the reference
- of Prof Nethercot, but for what purpose?
- 22 COMMISSIONER HANSFORD: Yes, because the label says less
- 23 than 3 metres thick. It suggests to us that the red is
- 24 3 metres thick and the blue is less than 3 metres thick.

- 1 But is that correct?
- 2 A. 應該咁講, 喺呢個樓板入面其實有部分嘅位置係唔--即係唔係全部都係3米
- 3 厚嘅,3 metre,3 metre deep嘅,如果呢個睇落去,喺呢度,我哋亦
- 4 都highlight咗...
- 5 COMMISSIONER HANSFORD: 3 metres thick, not wide; do you
- 6 mean "thick"?
- 7 A. Yes, the thickness.
- 8 COMMISSIONER HANSFORD: Sorry, it must be the translation
- 9 again. Okay.
- 10 MR CHEUK: Let me try to summarise your evidence.
- 11 A. Okay.
- 12 Q. Basically, the blue part is the location where the slab
- thickness is less than 3 metres?
- 14 A. Yes.
- 15 Q. Otherwise, in general, the thickness should be 3 metres?
- 16 A. Yes.
- 17 Q. That's the distinction.
- 18 COMMISSIONER HANSFORD: And are there actually any areas
- that are less than 3 metres? Is this just
- 20 representative in the model of some areas that may be
- 21 thinner than 3 metres? Is that the purpose of it?
- 22 A. 係,因為係頭先我哋有提過,其實喺成個area B同C,我哋會鎅開咗五部分,
- 23 亦都by chainage去鎅開,鎅開之後,就每一個都會去做一個assessment,
- 24 睇下究竟有opening嘅時間,同埋有啲地方係local係薄咗--塊slab係薄咗
- 25 嘅時間究竟對嗰個slab個structural behaviour有咩嘢影響。

- 1 COMMISSIONER HANSFORD: Yes, I understand about the
- 2 openings, Mr Sung. I don't yet understand about the
- 3 sections that are less than 3 metres thick.
- 4 A. 因為有啲部分係佢結構上佢造唔到3米厚嘅,可能佢啱啱有個escalator上
- 5 緊嚓嘅時間,就個local會有啲chamber位,所以就會有啲位置就會唔夠
- 6 3米厚嘅。
- 7 COMMISSIONER HANSFORD: Okay. I understand. Thank you.
- 8 MR CHEUK: Okay, I think you can proceed with your
- 9 presentation. I think we've got a fairly good idea
- 10 about what the first slide means here.
- 11 COMMISSIONER HANSFORD: I think we've got a good idea about
- the red and the blue and the white. I'm not sure people
- in the room have a good idea about unit axial modes and
- unit rotation yet.
- 15 MR CHEUK: Yes. I wonder, Mr Sung, if you could also
- 16 explain a little what does that mean as asked by the
- 17 professor.
- 18 A. Okay, 有問題。我哋解釋下點解會有unit axial或者unit rotation先,
- 19 其實呢個--首先解釋番呢—個structural modelling其實個作用,我哋係
- 20 想搵番究竟呢塊slab嘅--應該咁講,我哋喺個support嘅位置嗰個
- 21 stiffness factor,我哋想知道究竟呢塊slab under呢個opening同埋
- 22 一啲loading嘅時間有啲咩嘢stiffness factor會出現咗,所以我哋其實
- spring, We need to find the spring, the rotational
- spring and also the actual spring for the slab at the

1 support. COMMISSIONER HANSFORD: I fear that I understand it but I 2 3 suspect others don't yet, what is meant by unit axial 4 and what is meant by unit rotational. That would be my -- I can't speak for people in this room, but looking 5 at some nodding heads, I think that's the case. 6 MR CHEUK: Professor, frankly, I think it's difficult for 7 everybody in the room not in the engineering training to 8 9 understand all the details. 10 COMMISSIONER HANSFORD: So perhaps they don't need to is 11 what you're saying? 12 MR CHEUK: Yes. The original purpose of this presentation is not really to do the usual cross-examination, 13 understanding all the details here. 14 15 COMMISSIONER HANSFORD: Okay. MR CHEUK: The original purpose of this presentation is 16 17 really arising from Prof McQuillan's need to understand 18 these slides and what was the presentation done to 19 Prof Nethercot at that point of time. 20 That's why, originally, we didn't expect all the laypersons, so to speak, to understand all the 21 22 intricacies, this thinking here. 23 COMMISSIONER HANSFORD: So, Mr Cheuk, shall we assume that 24 Mr Sung's audience have engineering degrees? MR CHEUK: I would have thought many parties here have 25

already instructed experts. The purpose of this

- presentation is to really give something for our

 Commission's expert and their experts to consider. It

 seems to me it's not the original purpose really to have

 a lecture on civil engineering.
- 5 COMMISSIONER HANSFORD: No.
- MR CHEUK: No. So what I propose -- of course I'm not going 6 to prevent any questions, if any party is interested in 7 all the engineering details. That's why we have him 8 9 here. If any party wishes to ask questions, they can. 10 But it's not the purpose to go through all the sort of details so that it can be understood by all the 11 12 laypersons here. That would not be the original purpose, and that would not be the purpose of this part 13
- As I originally indicated, apart from a few
 questions, I did not intend to have many questions on
 Mr Sung.
- 18 COMMISSIONER HANSFORD: That's fine.

of cross-examination.

- 19 CHAIRMAN: All right. Can I ask you a question: what do you
 20 mean by "stiffness"? I understand you've got a test.
- I know what "stiffness" means. It either means a form
 of rigidity or it means I can't move my muscles because
 I got kicked in the leg; okay? I take it it's not the
 latter. I take it it's the first one. Are you talking
- 25 about rigidity?

14

26 A. 其實rigidity同stiffness會係有相關嘅,其實stiffness就係其實係一

- 1 個數值,其實去justify嗰個--去或者quantify嗰個rigidity嘅。
- 2 CHAIRMAN: Ah, okay. That's interesting. Thank you.
- 3 MR CHEUK: Yes, Mr Sung, you may carry on.
- 4 A. Okay,我哋去J3337,okay。頭先我哋step 1做咗一個modelling,跟
- 5 住其實呢個就係一個step 2嘅modelling,呢個會係一個我哋叫做Plaxis
- 6 嘅structural modelling software。

- 9 slab都會擺咗喺入面嘅。呢一個modelling其實就喺坊間亦都會--我哋亦都
- 10 會愛嚟做埋個construction sequence,去睇下究竟--因為呢個係一個--
- 11 紅磡站呢個project係一個我哋叫做top-down嘅construction method,
- 12 就先會做咗兩邊嘅diaphragm wall。
- Q. Yes, can I pause you there. Can you explain in simple
- 14 terms, this Plaxis analysis, what is its purpose? Is it
- 15 also again to assess the rigidity or stiffness?
- 16 A. 呢個modelling主要就係話我哋要將--因為呢個--因為我哋呢個會係牽涉
- 17 — 個excavation,牽涉—個開挖,所以喺呢個modelling入面我哋會有一
- 18 個--會入咗嗰個soil load,即係個泥嘅力,水...
- 19 Q. Soil load?
- 20 A. 係喇, soil load, 係喇, water load, 水嘅力, okay。咁under--喺
- 21 呢--有呢幾個嘅--有兩個嘅loading嘅時候,喺一路做一個開挖嘅時間究竟
- 22 對呢個diaphragm wall究竟個behaviour做一個assessment。
- 23 Q. I try to summarise, if I can. Basically, this is again
- a sort of computer modelling used to test the function

- of diaphragm wall. So you put in the value of soil
- load, water load, to simulate the actual soil situation,
- 3 and to see whether the diaphragm wall works as it was
- 4 designed. If it passed the software analysis, it means
- 5 that the design was probably good. That's the purpose
- 6 of this Plaxis analysis; is that a good summary?
- 7 A. 係,係,同埋如果okay咗,亦都會個diaphragm wall我哋都會做一個
- 8 reinforcement嘅checking。
- 9 Q. Also we see there are different colours of layers of
- soil here. As I understand, it represents different
- 11 kinds of soil underground. For example, at the very
- 12 below, we see something pink. That might be some -- the
- deepest layer of the ground.
- 14 A. The bedrock.
- 15 Q. Where the diaphragm wall sits on.
- 16 A. 係。
- 17 Q. You might need to speak up so your voice can be
- 18 captured.
- 19 A. Okay.
- 20 Q. After that you have the purple part of the soil. What
- is that part of the soil?
- 22 A. 如果我有記錯,呢個位應該我哋叫做CDG, completely decomposed
- 23 granite •
- Q. Decomposed?
- 25 A. "Decomposed" , yes, "decomposed" .

- 1 Q. Completely decomposed granite, yes. I don't think
- I need to trouble you to identify each layer but my
- 3 understanding is that at the top those particles will be
- 4 most refined, and at the bottom those soil particles
- 5 will be most solidified. Is that a fair
- 6 representation --
- 7 A. 係。
- 8 Q. -- in general terms?
- 9 A. General terms •
- 10 Q. Please carry on.
- 11 A. 喺呢個model,我哋做完呢個analysis之後,我哋會--因為其實喺個
- 12 diaphragm wall東西牆嘅,同埋EWL同埋NSL slab嘅嗰個connection,
- 13 其實我哋係design咗一個fixed joint嘅,所以喺呢個model考慮咗soil
- 14 load同埋water load之後,我哋要將番呢一個fixed end moment,喺個
- 15 connection嗰個moment就抽番出嚟,就要for第三個step,我哋做個slab
- 16 assessment嘅時候愛嚟用嘅。
- 17 Q. Yes. And --
- 18 COMMISSIONER HANSFORD: It might be helpful -- although we
- 19 don't need a full explanation, it might be just helpful
- 20 to understand what "moment" means. I know what it means
- 21 but I think it's probably an important term for others
- to understand.
- 23 A. 或者我簡單啲講,當我哋有一個物件會郁嘅時間,其實佢哋就會--我哋會
- 24 bend嘅,會bend咗一件物件嘅時間,就有一個力喺度嘅,我哋如果喺

- 1 engineering term,呢個力我哋就解釋為bending moment。
- 2 COMMISSIONER HANSFORD: Thank you.
- 3 MR CHEUK: Please -- so again, as I understand your
- 4 evidence, because the EWL connection with the diaphragm
- 5 wall was a fixed joint --
- 6 A. Yes.
- 7 Q. -- so there is a need to understand the turning/bending
- 8 force of that joint, whether it can resist the loading
- 9 or the bending force. So this is also part of the
- 10 purpose of this Plaxis analysis; is that correct?
- 11 A. Yes, yes.
- 12 Q. Please carry on.
- 13 A. Okay,我哋可以去到J3338,呢個就會係一個--又係一個plan嚟嘅,一個
- 14 平面圖嚟嘅,呢個就會係喺EWL slab一個平面圖,其實同頭先你見到一樣,
- 15 白色嘅地方就係呢個EWL樓板上面一啲嘅opening,頭先我哋喺Plaxis出
- 16 咗嚟嘅,頭先講嗰個bending force其實都會喺--你見到喺頂同埋喺底,
- 17 我哋就會apply番個頭先喺Plaxis出嚟嘅bending force就會擺番上去呢
- 18 個safe model。
- 19 咁點解會做呢個safe model呢?因為呢個先會係將所有喺呢個EWL
- 20 slab上面嘅loading就按usage擺番上去,另外就要按番頭先喺Plaxis
- 21 出嚟嘅個bending force擺番上去,就做呢塊EWL slab樓板嘅analysis。
- 22 Q. Again, I will try to summarise your evidence. First of
- all, before I summarise, is it correct that we see the
- 24 gridline 26 to 33, that corresponds to gridlines --
- 25 A. Yes.

- 1 Q. -- of the project? Secondly, what we are looking at
- 2 here is again the EWL slab --
- 3 A. Yes.
- 4 Q. -- with some other openings, and we see some black-line
- 5 arrows here. These black-line arrows are the moment
- force that you talked about; is that right?
- 7 A. From Plaxis.
- 8 Q. From Plaxis analysis. You obtained those moment force
- 9 values from the Plaxis analysis and then apply it to
- another computer model called SAFE, to this particular
- 11 piece of slab, to see again the performance of that
- 12 particular slab was corresponding with the design or
- not. Again, if it passes, it means that the design was
- 14 okay?
- 15 A. Yes.
- 16 COMMISSIONER HANSFORD: And can I ask, was this particular
- 17 location, gridlines 26 to 33 -- was this selected
- 18 because it's a worst-case, because it's got so many
- large openings; is that the reason?
- 20 A. No. Actually, for area B and C, the whole station has
- 21 model.
- 22 COMMISSIONER HANSFORD: This is just sample?
- 23 A. Extract some area for presentation only.
- 24 COMMISSIONER HANSFORD: Right. So this process was applied
- 25 to the whole slab?
- 26 A. Yes.

- 1 COMMISSIONER HANSFORD: But in the presentation to David
- 2 Nethercot you just presented this part?
- 3 A. Yes. Extract some area for presentation only.
- 4 COMMISSIONER HANSFORD: By way of example. The reason you
- 5 presented this was an example of what you'd done
- 6 elsewhere; is that correct?
- 7 A. Yes. Yes.
- 8 COMMISSIONER HANSFORD: Thank you.
- 9 MR CHEUK: But not the worst-case scenario?
- 10 A. I'm not sure but I don't think so. Just an example.
- 11 Q. Please carry on.
- 12 A. Okay,可以去J3339,呢個係一個--其實係一個summary table嚟嘅,
- 13 呢個summary table人面其實就係解釋咗喺紅磡站呢個project人面我
- 15 loading會喺呢個站入面發生,其實分別就會dead load、live load、
- 16 seismic load、uplift、soil load、water load,其實好多嘅
- 17 loading都會喺入面出現到嘅。
- 18 後面見到其實就會見到一路會有啲1.4、1.6或者1.76其他factor,
- 19 呢啲我哋喺行內就叫做"load factor"。Load factor其實就要同個
- 20 load case做一個叫做load combination,做完呢個load
- 21 combination之後,先會做我哋一個叫做"ultimate limit stay
- 22 design"嘅。
- 23 Q. Again I try to summarise your evidence. Basically this
- is a table which summarises the load to be applicable to

- 1 the slab and the diaphragm wall.
- 2 A. Yes.
- 3 Q. We probably don't need to go into the details of each
- 4 loading information. Please carry on.
- 5 COMMISSIONER HANSFORD: Actually, I'm happy for Mr Sung to
- 6 carry on, but I think we ought to just briefly
- 7 understand load factors and load cases.
- 8 MR CHEUK: Yes.
- 9 A. Okay,好,load case其實就係我哋叫做--可以咁講,我哋可以叫做
- 10 working load,即係actual load,究竟喺Code of Practice或者
- 12 Load factor其實係亦都會係under Code of Practice我哋需
- 13 要喺on top of load case之後去apply—個load factor for唔同
- 14 嘅load case,例如我哋for dead load,我哋就會用1.4嘅load
- 15 factor, live load就會用1.6。亦都喺Code of Practice亦都定義
- 16 咗究竟個load combination係需要點樣去做一個combination。
- 17 COMMISSIONER HANSFORD: So these are directly from the Code
- of Practice?
- 19 A. 係, yes。
- 20 COMMISSIONER HANSFORD: Thank you.
- 21 CHAIRMAN: And when you say 1.4 or 1.6, what measurement are
- you using?
- 23 A. This factor is also come from the Code of Practice.
- 24 Actually, in different countries have different load
- 25 factors.

- 1 CHAIRMAN: I appreciate that. I'm just thinking 1.4 ounces?
- 2 1.4 mega pressures sideways? I just don't know the --
- 3 COMMISSIONER HANSFORD: 1.4 times.
- 4 MR CHEUK: It's a safety factor, as I understand.
- 5 CHAIRMAN: 1.4 times what?
- 6 A. Times個load case, times個load case。
- 7 COMMISSIONER HANSFORD: Let me check I've got this right.
- 8 So the load case is stated in terms of units of load,
- 9 and the load factor is a multiplication?
- 10 MR PENNICOTT: It's a multiplier.
- 11 CHAIRMAN: Okay, it's a multiplier for units of load.
- 12 A. Yes. Load factor is the multiplier.
- 13 CHAIRMAN: Thank you.
- 14 MR CHEUK: Can we go to the left. Can we take one example
- so that everybody can have some idea.
- 16 For example, "SDL" at the top left-hand corner,
- "SDL1", what does that mean?
- 18 A. SDL,我哋行内叫做superimposed dead load。
- 19 Q. Superimposed dead load. What "dead load" usually refers
- 20 to, for example, is the concrete structure --
- 21 A. Self weight, maybe.
- 22 Q. -- itself, the dead load. Self weight.
- 23 For example, the fourth column, "COLDL", what does
- that stand for?
- 25 A. 因為呢塊EWL slab其實上面仲有一啲column喺上--support某一啲

- 1 column嘅,呢啲column嘅loading就係油咗呢個"COLDL",即係column
- 2 嘅dead load。
- 3 Q. Ah, column dead load.
- 4 A. 或者喺後面有column live load咁樣,去反映番。
- 5 Q. The next column we can see, it says "COL", which means
- 6 column, and "LL" means live load?
- 7 A. Yes.
- 8 Q. For example, in terms of first row, "U1", what does that
- 9 stand for?
- 10 A. 呢個係一個我哋assign咗一個load combination嘅名畀佢,頭先我哋講
- 11 我哋會做一拃嘅load combination,其實每一個我哋喺個modelling入
- 12 面會assign咗一個名稱畀佢。
- 13 Q. Basically it's a label for some combination of loading
- 14 that you or Atkins adopted to test the structure?
- 15 A. Yes.
- 16 Q. And there are various combinations of such loading and
- each one, you would give it a label?
- 18 A. Yes.
- 19 Q. For example, U1, U2, U3, U4?
- 20 A. Yes.
- 21 Q. That's all the combinations of loading?
- 22 COMMISSIONER HANSFORD: Sorry, when you say to test the
- 23 structure, you mean to model?
- 24 A. Yes, to model the structure.
- 25 MR CHEUK: To model the structure.

- 1 For example, we see the first top left-hand corner,
- 2 1.4, is that --
- 3 A. Load factor.
- 4 Q. -- the load factor you mention?
- 5 A. Yes.
- 6 Q. Thank you. Okay.
- 7 Shall we move on?
- 8 A. Okay,我哋可以去J3340,喺呢張slide,其實就我哋睇到有幾個部分,綠
- 9 色嘅部分就係我哋而家講緊東西邊嘅東同埋西邊嘅diaphragm wall,喺呢
- 10 兩個綠色嘅diaphragm wall嘅中間,我哋會見到有兩個,一個EWL slab,
- 11 下低亦都會見到有NSL slab嘅, okay。
- 12 灰色嘅部分其實就係--例如我哋睇番喺3米嗰個字嘅左手邊,其實見到
- 13 亦都會有啲existing嘅structure,呢個灰色嘅就係existing structure
- 14 嚟嘅其實,綠色就係新造嘅,新建嘅。
- 15 呢一個亦都你見到左手邊同右手邊有啲打橫嘅箭咀,其實亦都係講緊一
- 16 啲我哋會apply嘅loading嘅方向,即係呢邊橫--lateral load就會係一
- 17 哟soil load同埋water load。
- 18 Q. So we see on the right -- I'll try to summarise it --
- this is entitled "Critical load case".
- 20 A. Yes.
- 21 Q. Basically, in this slide, it's considering some more
- important loading situation?
- 23 A. Yes.
- 24 Q. On the right-hand side, we have 1.4 and then "(soil plus
- water load)". The 1.4 is a load factor that you

- 1 previously mentioned.
- 2 A. Yes.
- 3 Q. And soil load and water load, ie those forces exerted by
- 4 soil and water on the structure?
- 5 A. Yes.
- 6 Q. Then plus 1.4 DL, that's dead load?
- 7 A. Yes.
- 8 Q. Then plus 1.6 LL, that is the live load?
- 9 A. Yes.
- 10 Q. It's the critical load combination at the support. So
- 11 basically you say the force calculated here is use 1.4
- times a soil load and water load, plus 1.4 times the
- dead load, plus 1.6 times the live load?
- 14 A. Yes.
- 15 Q. Then you apply all this combination of forces to the
- structure and to see how it performs?
- 17 A. 應該咁講,我哋其實--頭先load combination,其實應該係頭先嗰
- 18 張slide我哋有好多個load combination,只不過係from我哋做完
- 19 assessment之後我哋見到個critical load case就應該係有1.4
- 20 soil mwater load ml. 1.4 dead load ml. 1.6 live load o
- 21 COMMISSIONER HANSFORD: So what I'm taking from this --
- 22 please tell me if I've got it right -- is you've
- 23 modelled various combinations and from that modelling
- you've identified that this is the worst-case?
- 25 A. Yes.

- 1 COMMISSIONER HANSFORD: You call it critical load case, but
- in layman's language this is the worst-case?
- 3 A. Yes.
- 4 COMMISSIONER HANSFORD: Consequently, if it works for the
- 5 worst-case, it must work for everything else; is that
- 6 the theory?
- 7 A. Yes.
- 8 MR CHEUK: Can you also explain the second bullet point on
- 9 the right-hand side -- it says:
- 10 "Soil water load and dead load dominate the bending
- moment, which contribute more than 90 per cent in area B
- 12 and area C."
- 13 A. Okay, 呢度其實就係話例如--我舉個例, 如果我哋出咗嚟嗰個bending
- 14 moment,最大嗰個bending moment,let's say 1,000嘅,其實due
- 15 to soil、water load同埋dead load,就係喺呢1,000入面已經佔咗
- 16 900,剩番10%先係由live load contribute嘅。
- 17 Q. I see. I will try to summarise again. What your
- analysis results is that in areas B and C, over
- 19 90 per cent of the loading comprises soil/water load and
- the dead load. The remaining 10 per cent is what we
- 21 call live load.
- 22 A. Yes.
- 23 Q. And what live load usually comprises is, for example,
- the weight of passengers?
- 25 A. Yes.

- 1 Q. And the weight of the train; does that include the live
- 2 load?
- 3 A. Yes.
- 4 Q. So what this shows is that the critical loads are not
- 5 the live load, but the soil, water and dead load?
- 6 A. Yes.
- 7 Q. Thank you. Can you move on, if you have --
- 8 A. 呢度應該係最後一張slide,我當日做presentation講嘅。
- 9 Q. I also understand that -- there's one question I would
- 10 like to ask you is that you probably have knowledge that
- 11 the 3 metre slab consists of the top mat and the bottom
- mat of rebars?
- 13 A. Yes.
- 14 Q. One suggestion that came out in the documents I read is
- 15 that the bottom mat was the compression zone, ie the
- 16 expected force in that part of the slab was compression
- 17 rather than tension?
- 18 A. Yes.
- 19 O. Is that correct?
- 20 A. Yes.
- 21 Q. In other words, those rebars at the bottom mat in that
- zone actually do not take any loading, because rebars
- only take tension but not compression; is that your
- 24 understanding?
- 25 A. 如果喺compression zone--可以咁講,喺compression zone,主要嘅
- 26 compression都會係靠concrete去contribute,應該全部都係靠

- 1 concrete去contribute嘅,但係因為喺code requirement入面,其實
- 3 番50% of你嘅tension reinforcement。其實個背後嘅含意,其實呢個

- 6 慮,所以其實就唔可以話個compression rebar唔需要,即係...
- 7 Q. I see. So, if I try to understand your evidence, it's
- 8 that the rebars at the bottom mat was there for the
- 9 purpose of taking seismic load, rather than the normal
- 10 tension?
- 11 A. 應該咁講,應該係一個我哋叫做detailing requirement。
- 12 Q. As required in the code?
- 13 A. 係, yes。
- Q. That I understand, as required in the code. I think
- everybody accepted that. But I was wondering the
- 16 rationale behind this code, as you understand it. As
- I understand your evidence, the rationale of this code
- is really for seismic loading, rather than the normal
- 19 tension and compression in ordinary cases. Is that
- 20 correct?
- 21 A. 但係如果呢一個其實就係喺code入面嘅ductility嘅section已經有提及
- 22 過嘅,其實我哋自己understanding,我哋就會覺得係--因為我哋自己有
- 23 時會做一啲國內嘅project,會有啲seismic嘅地方嘅project,其實都
- 24 有類似嘅requirement嘅。呢個requirement其實就係--我哋認為就係

- 1 一個seismic嘅時間,你會有啲reverse bending需要配一個--但係當然
- 2 呢個會係一個detailing requirement rather than去計數出嚟要幾多
- 3 鐵,係喇。
- 4 Q. As I understand from your answers, you are agreeing with
- 5 my proposition, right; the bottom mat's purpose, as you
- 6 understand, was really to take the seismic load? Or you
- 7 are not sure?
- 8 COMMISSIONER HANSFORD: Mr Cheuk, I think what Mr Sung is
- 9 telling us is the bottom reinforcement is to comply with
- 10 the code.
- 11 MR CHEUK: Yes.
- 12 COMMISSIONER HANSFORD: And the code may be required for
- seismic loading but it may be required for other things
- 14 as well.
- 15 MR CHEUK: Yes.
- 16 COMMISSIONER HANSFORD: I'm not quite sure that's a question
- for this witness.
- 18 MR CHEUK: Yes. That's why I understand he might not be
- 19 completely can tell us the purpose of that code
- 20 requirement.
- 21 COMMISSIONER HANSFORD: Maybe that's a question for the
- 22 experts when we get there.
- 23 MR CHEUK: Yes, certainly.
- 24 If I can go to -- this is the PowerPoint slide
- 25 number 9. I understand there's an animation originally
- 26 prepared at the time of presentation.

- 1 A. Yes.
- Q. Can we show the PowerPoint slide number 9.
- 3 Look at the screen. Actually, it shows the
- 4 construction sequence.
- 5 A. Yes.
- 6 Q. Can we go through that so that it might help everybody
- 7 to understand the construction sequence in this case.
- 8 A. Okay.
- 9 Q. This is, I suppose, step 1 --
- 10 A. Yes.
- 11 Q. -- originally, before -- the grey part was the existing
- 12 structures.
- 13 A. Yes.
- 14 COMMISSIONER HANSFORD: And the green part?
- 15 MR CHEUK: There's already some green part. What are those
- 16 green parts?
- 17 A. 其實係一啲drafting嘅--因為我哋用番一張係已經有permanent
- 18 structure綠色嘅地方去做,所以其實就變咗好似有啲綠色嘅窿,應該喺呢
- 19 一個stage嘅情況係應該所有嘢都係existing嘅。
- 20 COMMISSIONER HANSFORD: So why is it in green? It's just
- 21 a colour code; it's not significant? Everything on this
- 22 slide is existing?
- 23 A. Yes.
- 24 COMMISSIONER HANSFORD: Okay. Thank you.
- 25 MR CHEUK: Can we move to the next -- yes.

- 1 A. Okay, 呢個step就係其實見到就左手邊--即係東牆--東邊嘅diaphragm
- 2 wall同右手--同western嘅diaphragm wall都做咗,亦都中間--我哋亦
- 3 都會有一啲叫做barrette嘅foundation亦都會做咗先嘅。
- Q. Pausing here, can you tell us which part is the
- 5 barrette?
- 6 A. 中間嗰個--Next to grid N, on the left-hand side of
- 7 grid N.
- 8 Q. Can you tell that colour by reference to gridline?
- 9 A. Gridline N, the left-hand side.
- 10 Q. The left-hand side of gridline N, that's the barrette?
- 11 A. Yes.
- 12 Q. And how about the three other green structures?
- 13 A. 喺左手邊最遠嗰個其實係一啲--我哋叫做一啲socket H嘅舂嚟嘅。跟住然後
- 15 Q. Socket H-pile?
- 16 A. Socket H steel pile。喺K1線嗰個就係diaphragm wall。
- 17 Q. And how about -- okay.
- 18 COMMISSIONER HANSFORD: Just so that I can understand it --
- forgive me asking so many questions -- so what we're
- 20 seeing here is the two diaphragm walls, the eastern one
- 21 and the western one, a barrette in the middle --
- 22 A. Yes.
- 23 COMMISSIONER HANSFORD: -- and a socket H-pile, which is
- 24 a steel pile --
- 25 A. Yes.

- 1 COMMISSIONER HANSFORD: -- on the left-hand side of the
- 2 western diaphragm wall; is that --
- 3 A. Yes.
- 4 COMMISSIONER HANSFORD: So those are the four elements we
- 5 see here?
- 6 A. Four vertical elements.
- 7 COMMISSIONER HANSFORD: The four vertical elements that have
- 8 been constructed at this stage?
- 9 A. Yes.
- 10 MR CHEUK: Next.
- 11 A. Okay, 呢個因為係一個top-down嘅method, 我哋其實就會做完diaphragm
- 12 wall之後,其實就會先做咗個--先挖--我哋會excavate到去EWL slab個底,
- 13 個soffit,跟住就會做咗一個EWL slab。
- Q. In documents we came across the level minus 0.5mPD.
- That is the level that the soil should be excavated to,
- in order to construct this EWL slab.
- 17 A. Yes.
- 18 Q. That will be slightly below the soffit of the EWL
- 19 slab --
- 20 A. Yes.
- 21 Q. -- in order to provide space --
- 22 A. Working space.
- 23 Q. -- for workers, for the construction?
- 24 A. Yes.
- 25 Q. Also, as I understand from the documents, the method of
- 26 excavation at this stage is what we call open-cut, ie,

- 1 basically, you are just digging out the soil from above;
- there's no need to dig out any tunnels or anything in
- 3 assistance of the excavation.
- 4 A. 唔需要,因為其實本身個diaphragm wall已經好stiff,其實開始你先掘
- 5 咗去個EWL嘅soffit,即係當然挖多些少就for working space,其實都
- 7 會掘到落去。
- 8 Q. Okay. Next, please.
- 9 COMMISSIONER HANSFORD: So, at this stage, everything below
- 10 the --
- 11 A. EWL slab.
- 12 COMMISSIONER HANSFORD: -- EWL slab is unexcavated soil?
- 13 A. Yes.
- 14 COMMISSIONER HANSFORD: Thank you, yes.
- 15 MR CHEUK: That's why it's called the top-down approach?
- 16 A. Yes.
- 17 Q. Okay.
- 18 A. 跟住個sequencing就係挖到--做完EWL slab,其實呢個EWL slab其實就
- 19 會--其實一個function,喺呢個top-down個operation人面就會係一個
- 20 propping嚟嘅,我哋叫一個propping system。跟住就會再掘落去。其實
- 21 呢張slid其實我哋--其實中間仲有個intermediate stage嘅,但係呢度
- 22 就有show,因為我哋純粹想show個sequence。就會一路會掘掘,一路會
- 23 excavate down to去番NSL個soffit level,跟手就會做埋NSL嘅
- 24 casting, concrete casting。咁--sorry,咁其實中...

- 1 Q. Pause there first. Can I ask this question: after you
- 2 finish the NSL slab, we can see the slab would join
- 3 together the east diaphragm wall and the west diaphragm
- 4 wall, so this EWL slab will form a strut?
- 5 A. Yes.
- 6 Q. This strut is a necessary component or element to
- 7 facilitate the further excavation down into the soil, in
- 8 order to construct the NSL slab?
- 9 A. Yes.
- 10 Q. So, after the completion of this EWL slab, what the
- 11 workers need to do is to further excavate the soil all
- the way down to the soffit of NSL slab?
- 13 A. Yes.
- 14 Q. And again, slightly below that soffit, in order to
- provide working space; is that correct?
- 16 A. 呢個case應該就可以--正常呀,正常我哋應該就可以cast against個soil
- 17 去做嘅,唔需要特登,就有working space。
- 18 Q. So the working space will be none or very limited?
- 19 A. Very limited.
- 20 Q. Then, after the excavation down to NSL soffit, workers
- 21 can start to construct the NSL slab?
- 22 A. Yes.
- Q. Just like the situation of the EWL slab?
- 24 A. Yes.
- 25 Q. Then you can see, after this process, what we can see is
- on the screen. We have the two diaphragm walls, and in

- 1 between we have -- on top we have the EWL slab and then
- 2 you have the NSL slab.
- 3 COMMISSIONER HANSFORD: Sorry, the slide keeps flicking.
- 4 Can we stop at that point? That's it.
- 5 Sorry, so again, just to make sure that I'm clear
- and everyone's clear. At this point, after the NSL slab
- 7 is cast, then beneath the NSL slab is unexcavated soil?
- 8 A. Yes.
- 9 COMMISSIONER HANSFORD: And between the NSL slab and the EWL
- 10 slab is an open box?
- 11 A. Yes.
- 12 COMMISSIONER HANSFORD: Right. Okay.
- 13 MR CHEUK: Please carry on.
- 14 A. Next stage。Please,okay,呢一張,去到呢個stage,其實就係講緊--
- 15 頭先講過,灰色其實係existing啲column、structure嚟嘅,其實因為--
- 16 你見到其實我哋會用番EWL slab,會做一個轉換,做一個transfer,就去
- 17 support番喺灰色呢個existing structure嘅columns。
- 18 Support咗之後,我哋就會將原先喺EWL同埋NSL嘅空間入面嘅原先嗰
- 19 支--嗰個structure就會demolish佢嘅。
- 20 Q. Okay.
- 21 COMMISSIONER HANSFORD: So, at this point, the load from
- above, the existing load from above, goes down into the
- 23 EWL slab and gets transferred across --
- 24 A. Yes.
- 25 COMMISSIONER HANSFORD: -- and then down into the diaphragm

- 1 walls?
- 2 A. Yes. Yes.
- 3 MR CHEUK: And at this point the EWL slab's function is
- 4 similar to a transfer plate?
- 5 A. Yes.
- 6 Q. Okay. Next.
- 7 A. 跟住就係會做埋其他嘅結構。
- 8 Q. That will be the easy part.
- 9 A. Yes. Yes.
- 10 MR CHEUK: I think that's the end of the construction
- 11 sequence. Thank you for your explanation.
- 12 COMMISSIONER HANSFORD: Sorry, can we just go back one
- stage, one more -- right, okay. Now take us on a stage,
- one more stage, go forward a stage -- that's it -- and
- now one more. No, no, forward. The next one.
- 16 Right.
- 17 This is the OHE slab, is it?
- 18 MR CHEUK: OTE, over track exhaust.
- 19 COMMISSIONER HANSFORD: The OTE that we see being created.
- 20 So that's created at that stage, and then we've got this
- 21 discussion regarding monolithic detail, but perhaps
- 22 we will come to that later.
- 23 MR CHEUK: I should clarify, that was the original design
- 24 intent.
- 25 A. Yes.
- 26 MR CHEUK: But not the actual happened on the site.

- 1 COMMISSIONER HANSFORD: Okay.
- 2 MR CHEUK: I think that's all I need you to --
- 3 COMMISSIONER HANSFORD: Actually, sorry -- forgive me, I've
- 4 got all the questions -- what is the purpose of the
- 5 H-pile to the left? What is its purpose?
- 6 A. 呢邊--其實左手邊其實佢仲有其他新建嘅結構需要做嘅,所以就要做一啲新
- 7 嘅piling,新嘅foundation,其實同--就有同紅磡站有一個關係嘅其實,
- 8 即係有同EWL--即係diaphragm wall嗰邊有任何connection,其實。
- 9 The left-hand side piling is only for some new structure.
- 10 COMMISSIONER HANSFORD: So adjacent to the Hung Hom Station
- 11 there's other works going on?
- 12 A. Yes.
- 13 COMMISSIONER HANSFORD: And the purpose of the H-pile is to
- 14 support that?
- 15 A. Yes.
- 16 COMMISSIONER HANSFORD: Okay.
- 17 MR CHEUK: Thank you for your presentation. I will now just
- go very briefly to a separate topic.
- 19 In your witness statement, J6/4540, you deal with
- 20 the as-built construction details here, from
- 21 paragraphs 31 to 35.
- 22 A. Yes.
- 23 Q. Can I first ask you -- you mentioned about the joint
- 24 statement by Leighton and MTRC produced on around
- 25 16 November 2018.
- 26 A. Yes.

- 1 Q. Were you involved in that exercise?
- 2 A. 可唔可以問清楚嗰個問題?
- 3 Q. Yes. Were you involved in the exercise of producing the
- joint statement by Leighton and MTRC and the drawings
- 5 attached to that statement?
- 6 A. 個drawing嘅preparation就會由我哋負責,但係個joint statement,
- 7 我哋就有同禮頓或者MTRC有任何溝通、參與嘅。
- 8 Q. And were you personally involved in those drawings, in
- 9 preparation of those drawings?
- 10 A. 有。
- 11 Q. Now, those drawings were prepared on the instruction of
- 12 Leighton; correct?
- 13 A. Yes.
- 14 Q. And given to team B?
- 15 A. Yes.
- 16 Q. If we can turn up those drawings: B19/25515.
- 17 A. Okay.
- 18 Q. Were you involved in the preparation of this drawing?
- 19 A. Yes.
- 20 Q. Again, the next page, 25516, were you also involved?
- 21 A. Yes.
- 22 Q. If we look at 25515, we see it sets out four types of
- 23 construction joint details.
- 24 A. Yes.
- Q. For example, if we look at type 1, basically it says

- 1 "Existing couplers and rebars to be removed". We see
- 2 the annotations there; can you see that, at the very
- 3 top?
- 4 A. Yes.
- 5 O. Then we see also another annotation, "Concrete to be
- 6 hacked off and recast with slab"?
- 7 A. Yes.
- 8 Q. Okay. This was the change that you might have
- 9 understood by now, what we call the second change.
- 10 A. Yes.
- 11 Q. But what I don't see here is -- it talks about the
- 12 process, including hacking off concrete, but what it
- doesn't show is the result or product of this process;
- for example, at the end, how many layers of rebar are
- there at the top of this diaphragm wall.
- 16 A. 因為呢四個係一啲typical sections嚟嘅,如果要睇番究竟有幾多rebar
- 17 喺個top reinforcement嘅話,應該就要refer番一啲叫做slab
- 18 reinforcement drawing •
- 19 Q. I see. That will be included in the subsequent pages;
- do I understand correctly?
- 21 A. Yes.
- 22 O. That will show all the construction details which was
- the product of all the changes can be located in those
- subsequent pages?
- 25 A. Yes.
- 26 COMMISSIONER HANSFORD: Do we have them here? Are they in

- 1 this bundle? Can we just see one typical one?
- 2 MR CHEUK: Can we see -- Mr Sung, I wonder if you can help
- 3 us --
- 4 A. Okay.
- 5 Q. -- on this. Do you have a hard copy in front of you?
- 6 A. Yes.
- 7 Q. For example, if you want to see how many layers
- 8 eventually were constructed in relation to type 1, where
- 9 can we find it?
- 10 A. Please go to 25552. 首先,我哋要睇咗呢個我哋叫做coupler
- 11 schedule嘅drawing,呢個coupler schedule drawing就會specify
- 12 咗究竟每一塊panel用緊邊一隻cup嘅connection detail。
- Q. Yes. Can you help us a little bit more? It's not
- 14 absolutely clear, as we can see on the screen.
- 15 For example, there are some drawings on the
- right-hand side -- would that help you?
- 17 A. You can refer to the table, the right column, the
- 18 right-most column on the table.
- 19 COMMISSIONER HANSFORD: The left-hand side.
- 20 MR CHEUK: Yes.
- 21 A. 左手--右手邊--左手邊。我哋講第一個column--第一個table,其實你見
- 22 到去到最屘嗰個column係有"type"嘅,呢個type就要refer番前面嗰個
- 23 typical section嘅,係喇。
- 24 Q. So if we look, for example, at the first table, on the
- left-hand side, and the last column, it is the type --

- 1 A. Yes.
- 2 Q. -- that we have seen, which includes type 1, type 2,
- 3 type 3, type 4?
- 4 A. Yes.
- 5 Q. And these types are referable to the two sheets that we
- 6 have seen?
- 7 A. Yes.
- 8 Q. Then, if we want to know, for example, type 1, how many
- 9 layers of rebars were there, we can check against this
- 10 table, and that will be shown -- for example, next to
- 11 the type we see "Bottom", and then next to the bottom we
- see "Top"?
- 13 A. Yes.
- 14 Q. Those number of layers will be recorded?
- 15 A. 呢個table只會show到個coupler嘅數目。如果頭先好似你睇番第一行,第
- 16 一行你見到"Top",其實應該係有咗嘅,"N/A",N/A 嘅話,即係代表佢
- 17 有--即係將所有coupler都remove咗,變咗straight bar,係喇。你見到
- 18 "Bottom",其實係應該有郁過嘅就,係喇。
- 19 Q. We see it's empty.
- 20 CHAIRMAN: Sorry, the little cloud, like from a kids' book,
- 21 what does that stand for? That stands for "not
- 22 applicable"?
- 23 A. No, no, no. The cloud just shows the change compared to
- 24 the previous drawings.
- 25 MR CHEUK: It shows no couplers, through-bar?

- 1 COMMISSIONER HANSFORD: No, no.
- 2 A. No, I think the cloud in engineering is that we show
- 3 the change between this version and the previous version.
- 4 CHAIRMAN: That shows the change.
- 5 COMMISSIONER HANSFORD: So what you are telling us, Mr Sung,
- is the cloud is a form of highlighting?
- 7 A. Yes. Highlight the change.
- 8 CHAIRMAN: And the little triangular sign which looks like
- 9 something you put down if your car breaks down?
- 10 A. This is the revision number. For every drawing, when
- we update the drawing, we need to update the revision.
- 12 COMMISSIONER HANSFORD: So the cloud is highlighting the
- 13 change and the triangle is identifying the revision
- 14 number --
- 15 A. Yes.
- 16 COMMISSIONER HANSFORD: -- where that change has been made?
- 17 A. Yes.
- 18 COMMISSIONER HANSFORD: Okay.
- 19 MR CHEUK: So that's the way we can locate and identify the
- final as-built construction details, as from this set of
- 21 drawings --
- 22 A. Yes.
- 23 Q. -- Atkins helped to prepare on the instruction of
- Leighton recently, in recent months?
- 25 A. Yes.
- 26 Q. The last question I have for you is, according to your

- 1 experience, is this a normal way to prepare as-built
- 2 drawings?
- 3 A. 應該咁講,有某啲嘅activity係需要有as-built drawing嘅,即係例如
- 4 我哋做foundation, foundation我哋如果做完之後,我哋都需要入番一
- 5 個as-built嘅record畀番屋字署嘅。
- 6 Q. It's my fault. We are at cross-purposes. As
- 7 I understand from your witness statement, during the
- 8 course of preparation of these as-built drawings, you
- 9 relied on some site photos and some other
- drawings/sketches provided by Leighton; correct?
- 11 A. Yes.
- 12 Q. I am wondering, is this normal practice to rely on these
- materials instead of, you know, having contemporaneous
- 14 updated drawings to start with?
- 15 A. 應該咁講,正常係應該唔會係呢--即係咁--即係唔會係咁樣做番轉頭,應該
- 17 會可能有啲改動,應該係一個continuous process嚟嘅,係喇。
- 18 Q. And the normal process, as I understand your evidence,
- is that it should start contemporaneously, at the time
- of the changes?
- 21 A. Yes.
- 22 Q. Then you continue to update those changes as time goes
- 23 along?
- 24 A. Yes.
- Q. And at the final stage, you don't need to go

- 1 retrospectively to check all the photos and other
- 2 records in order to reconstruct everything?
- 3 A. Yes.
- 4 Q. That should be only some miscellaneous updating by the
- 5 time of the final stage?
- 6 A. Yes.
- 7 MR CHEUK: I have no further questions.
- 8 CHAIRMAN: Does anybody have any questions?
- 9 MR CHOW: Mr Chairman, I have a few questions for Mr Sung,
- 10 but I promise I won't ask anything about the SAP2000 or
- 11 Plaxis analysis or any of the load cases. I'm sure all
- my learned friends in this room won't need any further
- 13 education on these topics.
- 14 Cross-examination by MR CHOW
- 15 Q. Good afternoon, Mr Sung. I have just one or two
- 16 questions. What I'm interested in is -- one of the
- 17 issues that interests the government is on the question
- 18 of whether the changes made to the top of the east
- 19 diaphragm wall require prior consultation of BD before
- the execution of the works.
- Now, I see that in paragraph 26 you apparently
- 22 provide some expert opinion on this matter. So can
- I just quickly take you to that particular paragraph.
- 24 A. Okay.
- Q. Bundle J, page 4539, please. We've got it.
- Here you say, on the basis of the two sketches that

- 1 you have been provided by Lo & Lo -- perhaps it is
- 2 useful for us to quickly go to have a look on the two
- 3 sketches. Bundle J1, page 8.
- 4 The first sketch shows the original design --
- 5 A. Yes.
- 6 Q. -- where we see some couplers and some horizontal
- 7 reinforcement on top of the east diaphragm wall, and the
- 8 EWL slab and the OTE slab on each side of the wall were
- 9 to be connected through the couplers; right?
- 10 A. Yes.
- 11 Q. Then turn over the page, page 9. This is a different
- 12 arrangement which involved replacing the couplers with
- 13 straight bars and also trimming down part of the
- 14 diaphragm wall; right?
- 15 A. Yes.
- 16 Q. So this is the deviation that you are talking about in
- this paragraph.
- 18 Then you go on to say:
- 19 "In my experience, the design principles do not
- 20 change as it is a substitution of couplers for straight
- 21 through reinforcement bars which would not change the
- 22 behaviour of the joint connection between diaphragm wall
- and slab. However, I understand there was also a change
- to the as-built diaphragm wall ..."
- 25 Pausing here, the change to the as-built diaphragm
- 26 wall that you refer to is the trimming down of part of

- the completed diaphragm wall; is that right?
- 2 A. No,呢個係我哋講--我嘅witness statement其實係想講話如果你哋打
- 3 低咗D-wall,就會對個diaphragm wall有改動,對一個as-built嘅
- 4 diaphragm wall有改動。
- 5 Q. Okay. So that is basically when I meant earlier.
- 6 Then you said:
- 7 "... and this would normally be a minor amendment
- 8 which for a non-instrument of exemption project should
- 9 normally be submitted to BD for approval and consent."
- Now, here, when you refer to "non-instrument of
- 11 exemption", am I right to take it that you refer to the
- 12 usual private building projects governed by the
- Buildings Ordinance?
- 14 A. Yes.
- 15 Q. So, for those projects, this sort of changes or works to
- 16 be carried out to a built diaphragm wall, although you
- 17 consider as a minor amendment, but you would still need
- 18 to make submission to the Buildings Department and
- 19 obtain consent?
- 20 A. Yes.
- Q. And before the execution of the work; am I correct?
- 22 A. Yes.
- Q. Okay. What I'm interested to further explore with you
- is the next sentence. You go on to say:
- 25 "However, as the project had an IoE, provided that
- 26 the structural stability was not affected ..."

- 1 Now, here you mention about structural stability not
- being affected. Is it because of what is provided for
- 3 in the practice note for the authorised person ADM-19?
- 4 A. ADM-19? No. 唔係。
- 5 Q. Perhaps to help you -- it's worthwhile to go to have
- a look at the PNAP ADM-19, bundle H20, page 40065.
- 7 The reason why I refer you to this practice note is
- 8 because Leighton's witnesses referred to this practice
- 9 note as the basis for saying that the changes that we
- 10 are now talking about do not go to impact on the
- 11 stability of the structure, and for this reason, because
- 12 of a procedure implemented by the Buildings Department,
- that sort of change does not require prior approval and
- 14 consent of the Buildings Department.
- 15 A. Foundation係有呢個ADM-19嘅,即係foundation嘅改動係唔納入呢個
- 16 ADM-19 °
- 17 Q. Right. I'm glad that you agree with me. So do you
- 18 agree with me that the changes now -- the changes that
- 19 have been made to the top of the east diaphragm wall
- 20 would be, as far as you are concerned, considered as
- a change made to the foundation?
- 22 A. Yes.
- Q. And because of that, any leeway allowed for by the
- 24 Buildings Department under this practice note would not
- apply?

- 1 A. 當然。
- 2 Q. Thank you. Then can you explain what you were trying to
- 3 say at the last part of paragraph 26, where you say:
- 4 "... contest would not be required and it would be
- 5 normal to consult with BD as to the change and it would
- 6 be at the discretion of the CP when this amendment
- 7 submission would be submitted."
- 8 A. Okay,我最後呢句嘅意思其實就係我understanding,喺一個
- 9 consultation project,就唔需要攞consent嘅,只要acceptance,
- 10 即係BD accept咗你個drawing,你就可以開工做嘢嘅。所以如果呢個case
- 11 如果in case有一個咁嘅改動,其實亦都係一個好normal嘅channel,就
- 12 會同番個BD嘅officer去討論番究竟呢一個改動需唔需要做一個formal嘅--
- 13 即係究竟我哋意思做amendment究竟你做一個diaphragm wall嘅minor
- 14 amendment吖,定係需要做一個A&A work嘅submission。即係因為如果
- 15 normal project如果under Buildings Ordinance,如果我哋如果有
- 16 啲類似嘅情況,其實呢啲case 我哋需要做番一個A&A嘅submission嘅,
- 17 rather than—個diaphragm wall嘅amendment。
- 18 Q. And for this we would expect the consultation would be
- 19 carried out before the execution of this amendment, is
- 20 that right, or the execution of the alteration work?
- 21 A. Before or after?
- 22 O. Before.
- 23 A. 如果呢個case,我會覺得呢個case係應該同番BD consult咗,okay咗之
- 24 後,即係入番先做嘅。

- CHAIRMAN: Sorry, what's "A&A"? 1
- Addition and alteration work. 2
- 3 MR CHOW: Thank you very much, Mr Sung, I have no more
- 4 questions for you.
- MR SHIEH: Consequential upon questions made by Mr Chow, 5
- 6 I may have a question or two for Mr Sung.
- CHAIRMAN: Yes. 7
- MR SHIEH: I must preface my question by this observation. 8
- 9 Mr Sung is a witness from Atkins, as a concerned party,
- 10 Mr Sung is not here as an independent expert. Mr Chow
- skilfully slipped in the words "expert opinion" into his 11
- 12 characterisation of Mr Sung's evidence.
- Now, I wish to preface my question by saying that 13
- what I now question this witness on could well 14
- 15 ultimately be a matter for expert witnesses, but
- consequential upon Mr Chow's question I must lay down 16
- 17 a marker by putting our position. The rest is a matter
- 18 of submissions at the end of the day.
- 19 CHAIRMAN: Yes. I think I should say I certainly haven't
- 20 accepted the evidence of this witness as being expert
- 21 evidence. He's obviously a knowledgeable person, but
- 22 a great many witnesses are knowledgeable without being
- 23 experts, and the way I have read it is that he's here to
- 24 explain these diagrams, which may be of use to the
- experts who will perhaps later be called. I hope 25
- 26 that --

- 1 MR SHIEH: Yes, that is extremely helpful, but as I said,
- 2 consequential upon the way in which the government has
- 3 sought to spin the questions --
- 4 CHAIRMAN: Yes, of course.
- 5 MR SHIEH: -- I promise to be extremely short, and by way of
- 6 laying down a marker only.
- 7 CHAIRMAN: Good.
- 8 Cross-examination by MR SHIEH
- 9 MR SHIEH: Mr Sung, you talked about works being done to
- 10 foundation.
- 11 A. Yes.
- 12 Q. Can I ask you to look at bundle C35, page 26577. That
- is a Code of Practice for Foundations issued by the
- Buildings Department; do you see that?
- 15 A. Yes.
- 16 Q. Are you familiar with this document?
- 17 A. Yes.
- 18 Q. Can I ask you to look at 26585. There we see the
- 19 definition of "Foundation":
- 20 "That part of a building, building works, structure
- or street in direct contact with and transmitting loads
- 22 to the ground."
- Do you see that?
- 24 A. Yes.
- Q. Can I ask you then to turn to one of the slides that we
- have been looking at, in bundle J4, maybe 3340.

- 1 You see the two green vertical structures with
- 2 circles; do you see those?
- 3 A. Yes.
- 4 Q. Those are the diaphragm walls; correct?
- 5 A. Correct.
- 6 Q. They go all the way down to the bottom, where they touch
- 7 soil?
- 8 A. 或者bedrock。
- 9 Q. Or bedrock.
- 10 A. Yes.
- 11 Q. Yes. And somewhere along the way there is the NSL slab;
- do you see that?
- 13 A. Yes.
- 14 Q. And above that we have the EWL slab; correct?
- 15 A. Correct.
- Q. Where the trimming down or hacking off took place was
- 17 really within the circles, correct, or near the top of
- 18 the circles; correct?
- 19 A. Yes.
- 20 Q. I would suggest to you that that part of the diaphragm
- 21 wall where the hacking took place was not part of the
- foundation; do you accept that?
- 23 A. 唔同意,因為其實喺你做一個approval嘅時間或者acceptance嘅時間,

- 2 個批則approval letter人面其實已經寫咗呢個係一個foundation嘅
- 3 element嚟嘅。
- 4 Q. That is your answer; right?
- 5 A. Yes.
- 6 MR SHIEH: Chairman and Professor, as I said, my question
- 7 arose simply because of the way Mr Chow put a question.
- 8 CHAIRMAN: Yes.
- 9 MR SHIEH: I'm not yet fully prepped by way of testing the
- 10 evidence by way of expert testimonies so I hope I have
- 11 laid down an adequate marker so it can't be said that we
- 12 haven't actually picked up that point, but I've got the
- answer, I've put it, the rest could well be a matter for
- when the real experts come into the picture.
- 15 CHAIRMAN: Of course. Thank you.
- 16 MR BOULDING: Sir, we have no questions for this witness.
- 17 CHAIRMAN: Yes.
- 18 Anything further?
- 19 MR CONNOR: Thank you very much, sir. I have no further
- 20 questions by way of re-examination of Mr Sung, subject
- 21 to any final questions that you, Mr Chairman, or you,
- 22 Professor, might have.
- 23 COMMISSIONER HANSFORD: I've asked all my questions, thank
- 24 you.
- 25 MR CONNOR: Thank you very much.
- 26 CHAIRMAN: Thank you very much, Mr Sung.

- One thing I should mention to you, and I'm sure you
- 2 know this, but to be an expert witness you have to meet
- 3 certain criteria and be there for a certain purpose.
- 4 It's no denigration of your very admirable
- 5 qualifications, all right, that you are not qualified as
- an expert in this particular set of proceedings.
- 7 WITNESS: Okay. I understand.
- 8 CHAIRMAN: Thank you.
- 9 (The witness was released)
- 10 MR CONNOR: Thank you, Mr Sung.
- 11 MR PENNICOTT: Sir, that's it for today, as far as I'm
- 12 aware.
- 13 CHAIRMAN: Yes.
- 14 MR PENNICOTT: So far as tomorrow is concerned, there are,
- 15 I believe, three witnesses: Mr Lee from Atkins, WC Lee;
- and then programmed in are the two witnesses from Pypun,
- 17 Mr Mak and Mr Yueng. So those are the three witnesses
- 18 that we have tomorrow, and I'm reasonably confident that
- 19 we will accomplish those three witnesses tomorrow as
- 20 well.
- 21 CHAIRMAN: Good. Thank you.
- 22 I would mention -- I hope that counsel has already
- 23 advised you -- but I will have to leave a little earlier
- tomorrow.
- MR PENNICOTT: Yes, I have mentioned it to some people but
- 26 not others, sir, sorry.

- 1 CHAIRMAN: I have at 5.30, tomorrow -- Mr Jat, are you --
- 2 MR JAT: Yes.
- 3 MR SHIEH: Me too.
- 4 CHAIRMAN: So I can join him in my excuse.
- 5 COMMISSIONER HANSFORD: Is this a Christmas party?
- 6 CHAIRMAN: There's a pre-trial review for a Securities and
- 7 Futures matter in Central, and that was set down some
- 8 time ago and we haven't been able to move it. It's at
- 9 5.30, but obviously one needs to be there before 5.30,
- if possible, so working on the basis that it takes about
- 35 to 40 minutes to properly get there and then to have
- 12 a good look at the papers, I would look to adjourning at
- 4.30 tomorrow, if that's satisfactory.
- 14 MR PENNICOTT: Yes, sir. Thank you very much.
- 15 CHAIRMAN: My apologies again, but this was something
- already marked in the diary a good time ago.
- 17 MR JAT: I'm sure Mr Chairman will find that the costs for
- 18 Mr Benjamin Yu to wait for us is going to be more
- 19 expensive than all of us here.
- 20 MR SHIEH: Mr Yu can't defend himself here, that's the real
- joy of it.
- 22 MR JAT: That's why I said it!
- 23 CHAIRMAN: Thank you very much indeed. 10 o'clock tomorrow
- 24 morning. Thank you.
- 25 (3.52 pm)
- 26 (The hearing adjourned until 10.00 am the following day)

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