	Page 1		Page 3
1	Wednesday, 25 September 2019	1	directly in CS2 ds and many requirements are stated
2	(2.49 pm)	2	without derivation, reference or context. It is
3	CHAIRMAN: Yes, Mr Pennicott.	3	therefore necessary, if seeking either context or
4	MR PENNICOTT: Sir, good afternoon.	4	clarity on points of detail, to refer to the overarching
5	Before we get to the evidence of Dr Barrie Wells,	5	principles set out in international standards, of which
6	who was sat in a seat in front of that fireplace on the	6	the foremost are the collection of standards published
7	screen, in London, a short while ago but has temporarily	7	[in ISO]."
8	disappeared sir, before we get to his evidence, you	8	Then he went on to cite certain paragraphs in CS2
9	will be aware that there are essentially two	9	which refer to ISO.
10	applications before the Commission, both of which relate	10	Pausing here, Mr Chairman and Mr Commissioner, it is
11	to Dr Wells' evidence. The first application is	11	quite clear from what Dr Wells is trying to say here
12	an application by the government to invite the	12	that he was trying to say that, well, despite the
13	Commission to expunge a number of identified paragraphs	13	express or explicit terms as set out in CS2, there are
14	in Dr Wells' COI 2 report.	14	certain standards which would need to be incorporated or
15	The second application is an application by Leighton	15	implied into CS2, and that is his understanding and his
16	to resist, at least at this stage, the admission of	16	interpretation of CS2.
17	Prof Yin's second report which is a report which is	17	But when we look at the two passages that he cited
18	responsive, essentially, in our submission, to Dr Wells'	18	regarding CS2, it says, first of all, under 3.2:
19	reports both in COI 1 and COI 2.	19	"A system of third party certification of the
20	Sir, I don't know precisely how you wish to deal	20	manufacturer to the quality standards of ISO 9002 is
21	with those applications. I know you've seen them,	21	designed to ensure [compliance with British
22	you've had a think about them, but logically I think	22	Standard] is being carried out."
23	probably in time Mr Khaw's application for the	23	Then he went on to say:
24	government was first, and that's the expunging	24	"Review of the CS2 comprises two stages. Stage 1 of
25	application. I have my own views, which I will express,	25	the review is to update the technical specification and
	Page 2		Page 4
1	if necessary, to the Commission, but perhaps it would be	1	quality assurance system for steel reinforcing bars to
2	appropriate, in the first instance, to hear briefly from	2	align with the quality and performance levels as
3	Mr Khaw.	3	stipulated in the latest international standards"
4	CHAIRMAN: Yes.	4	Again, pausing here, there is nothing in CS2 which
5	MR KHAW: Yes, Mr Chairman and Mr Commissioner.	5	states or even indicates that if certain international
6	I fully understand that the Commission may not	6	standards had been complied with, then you don't need to
7	always welcome interlocutory applications in an Inquiry,	7	comply with the standards as set out in CS2. There have
8	but we believe this is an important one that we need to	8	never been any provisions in CS2 to that effect.
9	make.	9	So what Dr Wells is trying to say is that despite
10	If I can first of all take the Commission to the	10	the express provisions in CS2, the failure to carry out
11	relevant paragraphs of Dr Wells' report regarding the	11	all the rebar testing as required under CS2, in fact
12	Extended Inquiry. That is in ER1, item 2.	12	does not amount to a breach. That's essentially what he
13	CHAIRMAN: Sorry, bear with me a second.	13	is trying to say.
14	MR KHAW: If we can take a look at internal page 3, starting	14	Because if we look at 3.4, he is trying to set out
15	from section 3, about rebar testing.	15	the long-term goal of CS2:
16	CHAIRMAN: Mm-hmm.	16	" is to reach the situation extant in most other
17	MR KHAW: The relevant paragraphs that we object to start	17	countries, where the national standards do not require
18	from 3.1. Mr Chairman and Mr Commissioner can see that		purchasers' testing provided manufacturers' testing is
19	3.1 actually is about the quality assurance standards	19	deemed adequate. This is in line with the ISO
20	relevant to rebar testing are CS2.	20	overarching standard ISO 3951, which states that
21	CHAIRMAN: Yes.	21	standards should allow for a reduction in testing"
100	NIE K HAW: And the undeted standard ('S') at ceters	22	Then he went on to say:
22	MR KHAW: And the updated standard CS2, et cetera.		WXX 4 4 1 1 4 4 4 TOO 10 10 1
23	Then 3.2 we say starts to contain Dr Wells'	23	"What this is saying is that the ISO committee, ie
	_		"What this is saying is that the ISO committee, ie the community of experts, advocates a flexible approach for quality assurance when applying standards, rather

	Page 5		Page 7
1	than dogmatic adherence to rules."	1	MR PENNICOTT: I'm inferring that he can hear, although you
2	Now, the question arises on what basis can Dr Wells	2	might like to confirm it because he is making some
3	talk about what was the underlying thinking of the ISO	3	notes. But I don't know.
4	committee? It's clearly not stated here.	4	CHAIRMAN: Let me just see.
5	Then if we look at his conclusion at 3.14 on the	5	Dr Wells? Ah, yes.
6	next page, page 5, and the conclusion in question	6	DR WELLS: Good afternoon.
7	appears at page 6, (b). He then said, after his	7	CHAIRMAN: First, thank you very much for your attendance to
8	interpretation of CS2 and also the reference to	8	give evidence in London. I think you've come from North
9	interpretation of C52 and also the reference to	9	Wales; is that right?
10	requirements under CS2 he said:	10	DR WELLS: That's correct.
11	"even though some batches of rebar were not	11	CHAIRMAN: A bit of a journey. We are as you know,
12	re-tested after delivery to the site, both the spirit	12	courts are inclined to this kind of, including
13	and the intention of the applicable standards were met	13	Commissions of Inquiry we are having a brief
14	overall."	14	inter-exchange concerning certain aspects of your
15	We can then look at the next page, 3.18, where he	15	technical and expert evidence. We are quite happy for
16	has said, in that case:	16	you to listen to it, if you wish to do so. I don't know
17	"The adequacy of the testing should be assessed by	17	if you've been able to hear what's being said.
18	reference to the relevant quality assurance standards.	18	DR WELLS: I have. Thank you.
19	I have presented this assessment in my answer to	19	CHAIRMAN: Good. So we will continue on, and thank you very
20	question 1."	20	much indeed for your presence.
21	Then he went on to say:	21	MR KHAW: Thank you, Mr Chairman.
22	" the relevant quality assurance standards	22	CHAIRMAN: Yes, Mr Khaw.
23	clearly means CS2:1995 and CS2-2012 but may also be		MR KHAW: I was at 3.20, where Dr Wells said:
24	interpreted as including other national and	24	"It is therefore necessary to include, as being
25	international standards. As stated previously, CS2	25	relevant, the guidelines given by the ISO and
	Page 6		Page 8
1	states", et cetera.	1	specifically ISO 3951 which states that it is
2	Then he repeated the two paragraphs contained in	1	specifically 150 5/51 which states that it is
3		2	acceptable ' to reduce inspection costs (by means of
		2	acceptable ' to reduce inspection costs (by means of
	CS2:1995 and 2012.	3	a switch to a smaller sample size) should consistently
4	CS2:1995 and 2012. MR SHIEH: Before my learned friend goes further, I can see	3 4	a switch to a smaller sample size) should consistently good quality be achieved'."
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	Page 9		Page 11
1	and their health and wellbeing, et cetera, et cetera,	1	That is rather trite, I believe, and in fact if
2	the weight they put on over periods of time, you have to	2	Dr Wells is not saying CS2 should be interpreted in
3	look at things like weather, grass patterns and things	3	a particular way. We have no objection to that. In
4	like that.	4	fact, we have actually considered proposing a middle of
5	So what we are saying here is, for example, "to	5	the road by suggesting that all parties and also the
6	reduce inspection costs (by means of a switch to	6	Commission should now consider Dr Wells' report on
7	a smaller sample size) should consistently good quality	7	a de bene esse basis. But the problem that we face is
8	be achieved" you are saying if you are getting if	8	that once we do so, and unless we have the assurance
9	you have a record of consistently good quality materials	9	that this rebar testing issue actually would not be
10	coming before you, then you don't have to have the same	10	visited at the end of the day, then once this evidence
11	sample size. "I have therefore taken, for my	11	is put in, we are deprived of an opportunity of asking
12	mathematical approach, a smaller sample size." Then	12	an expert on, for example, quality assurance or
13	I can either say I don't accept that or Prof Hansford	13	international standards, to give his or her own opinions
14	can say he finds difficulties with that.	14	as to whether this is the correct way of interpreting
15	It's not so remote, is it? He's not suddenly	15	CS2.
16	delving into the niceties of trying to understand Middle	16	CHAIRMAN: Okay. Yes.
17	French, you know, or something like that.	17	MR KHAW: So this is the problem that we face if this part
18	MR KHAW: No. Mr Chairman, we would like to point out this		
19	fundamental difference, that is the difference between	19	of his evidence is not excluded at present. I believe that Mr Chairman and Mr Commissioner have
	asking a statistical expert to comment on the adequacy		
20 21	of rebar testing by referring to international	20	seen our arguments by referring to Leighton's two
22		21 22	letters, because Leighton was trying to say, in the two
	standards. That I can perfectly understand and that is		letters, "Given what we have said, you should be aware
23	what we need.	23	that Dr Wells would be asked to give evidence on the
24	CHAIRMAN: Yes.	24	matter of interpretation." But if we look at those
25	MR KHAW: But it is quite another question, an entirely	25	letters carefully, what they said was simply question 1
	Page 10		Page 12
1	different question, when you are asking a statistical	1	that I postulated earlier, that is the adequacy of rebar
2	expert to actually give his own opinions on, "Hey, CS2	2	testing by referring to international standards. They
3	should not be interpreted just on its own terms; it	3	never indicated that they would ask Dr Wells to give his
4	should be interpreted by actually taking into account	4	own opinions on the actual interpretation of this
5	this and that, and the overarching principle, what is	5	document. That is wrong, as a matter of fact.
6	actually the underlying thinking of the ISO	6	So we say they cannot rely on their letters to say
7	committee" this is a matter of interpretation, which	7	we should have been aware of this coming.
8	is miles away from a question regarding the adequacy of	8	And also, they rely on the list of issues in saying
9	rebar testing simply by referring to certain	9	the list of issues actually refers to the words "based
10	international standards. I think that's the main	10	on international quality assurance standards",
11	objection we have.	11	et cetera. Again, that was premised upon the issue that
12	CHAIRMAN: All right. Thank you. I have your point, yes.	12	they were asking the expert to comment on the adequacy
13	MR KHAW: In fact, we have cited an authority, and I don't	13	of rebar testing by referring to international
14	wish to really spend time on that, but in essence what	14	standards, not by asking a statistician to give his
15	that authority says is that if the court is asked to,	15	opinions on what this requirement in the local industry
16	for example, consider expert opinion on company law in	16	actually meant. It's two completely different matters.
17	respect of Cayman Island law, then obviously, if there	17	CHAIRMAN: Yes.
18	is an issue as to whether a director of a company had	18	MR KHAW: So I hope I have registered sufficiently my
19	the power to do certain things under articles of	19	objection. The last point that we wish to raise is that
20	association, the Cayman Island lawyers could give their	20	in fact everyone knows and Leighton has actually
		2.1	acknowledged that in fact no suitable measures would
21	opinions on Cayman Islands company law. They could give		- I
21 22	an opinion on how documents should be interpreted, the	22	need to be taken due to the lack of rebar testing. So
21 22 23	an opinion on how documents should be interpreted, the rules of interpretation according to Cayman Island law.	22 23	need to be taken due to the lack of rebar testing. So in fact what they are trying to ascertain here is
21 22	an opinion on how documents should be interpreted, the	22	need to be taken due to the lack of rebar testing. So

conservative. That's what they were trying to ascertain by referring to international standards. But we say, in fact, this whole exercise would serve a first practical purpose, given the fact that we have now the conclusion that no special ineasures would be now the conclusion that no special ineasures would be essentially the particular		Page 13		Page 15
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13 MR KHAW: So in fact this issue would serve little practical 14 purpose, but now they are asking us to jump one step 15 further, by actually not just ascertaining whether there 15 thought be suitable measures or not because no suitable 16 should be suitable measures or not because no suitable 17 measures would be necessary. They are asking us to 18 actually study the requirements a present to see 18 of law, matters of submission for the Commission. The 19 whether the requirements comply with international 20 standards, whether it should be interpreted. Why would 21 that be within the terms of reference of this Extended 21 laquiry? We have serious doubt about it. 22 contradict that wouldn't really prejudice that 22 particular party. So I would simply commend to this Commission that 23 particular party. So I would simply commend to this Commission that 25 wereyone's time. Page 14 CHAIRMAN: Yes, I see what you mean. 24 MR KHAW: Thank you. 25 CHAIRMAN: Thank you. 26 MR SHIEH: Mr Chairman, it's ironic that the last sentence 27 of my learned friend should be to the effect that he 28 wants to save everybody's time, when we had in fact 29 centroched upon the time that could have been used for 29 twell the same time and the providence in relation to 20 context. If Dr Wells is to give evidence in relation to 21 strict rules of evidence do not apply. 28 condly, Mr Chairman has it spot on when you 15 context. If Dr Wells is to give evidence in relation to 29 whether testing complied with applicable quality 20 according to the relevant applicable standards, then he as part of the context 20 Dr Wells would have to explain what he understood the 20 reference to what the waster when be ene esse. 29 counsel saying, "Tm not going to consess those are read to saw times sto 20 what evidant the semilar because to submission of the Commission of that the admitter because the and the context 30 particular party. 30 particular party. 30 particular party. 31 particular party. 31 particular party. 32 particular party. 32 particular pa	11	lack of rebar testing.	11	COI 1 when, for example, government witnesses went on
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25 CS2. That exercise of construction could well be simply 25 cross-examine a witness. If my learned friend says it's	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR SHIEH: Mr Chairman, it's ironic that the last sentence of my learned friend should be to the effect that he wants to save everybody's time, when we had in fact encroached upon the time that could have been used for Dr Wells' evidence. Can I just make a few points first? It is slightly unreal in a commission of inquiry to hear submissions citing case law on rules of evidence when we all know strict rules of evidence do not apply. Secondly, Mr Chairman has it spot on when you intervened to say that matters very much turn on context. If Dr Wells is to give evidence in relation to whether testing complied with applicable quality assurance standards, then as part of the context Dr Wells would have to explain what he understood the relevant applicable standards to mean, before he could express a view as to whether or not the testings that have been done complied with the relevant standards. Now, the ascertainment of the relevant standards could well be simply looking at plain English on CS2.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Dr Wells is going to express his opinion, as he is entitled to because leave has been given, opinion on whether testing complied with applicable quality assurance standards, he then says, "In my understanding/opinion", or whatever word you call it, "the applicable standards mean the following", then how on earth is one going to redact that? If one redacts that sentence where he sets out his view/opinion/understanding of what the applicable standards mean, then the Commission would be completely at a loss, because the Commission will not know by reference to what Dr Wells is expressing his opinion on. So, for all these reasons and to save time, I would simply invite the Commission to look at the letter of O'Melveny & Myers in CO2 bundle AA1 at page 392, which basically encapsulates what I have just said. For all these reasons, I would respectfully submit that there should be no expunging. The Commission can perfectly well deal with the matter de bene esse. Parties can take their own view, whether or not they
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conclusions.

CHAIRMAN: Yes.

MR PENNICOTT: Indeed. And you don't actually need all of 25

Page 19 Page 17 1 this, some of this evidence --1 all a matter of law, submission, fine, have the courage 2 2 CHAIRMAN: You've made it -of your conviction, don't cross-examine; deal with it as 3 3 a matter of interpretation. MR PENNICOTT: Can I say --4 CHAIRMAN: Thank you. 4 CHAIRMAN: Yes. 5 5 MR PENNICOTT: -- clearly there's common ground that this is MR KHAW: Mr Chairman, just one point of reply. In fact, 6 there is one point that I entirely agree with Mr Shieh, 6 ultimately a matter of interpretation. It is not, 7 7 strictly speaking, for the experts, but occasionally, that is the matter of interpretation should be a matter 8 and this may be one of those occasions, it may not be, 8 decided by this Commission, and usually will deal with 9 9 it by way of legal arguments. That spells out the need that background and context is required to understand 10 10 for this application, because if that is the case, as where the expert is coming from. But again whether you 11 Mr Shieh has acknowledged, Dr Wells' views on 11 determine that is the case or is not the case is for 12 12 a later stage, in my respectful submission, and I agree interpretation do not bind this Commission, do not bind 13 anybody. Why should they be here? Why should they be 13 with Mr Shieh that the proper approach is for the 14 14 Commission to consider all of this de bene esse and take here to confuse everybody? 15 15 a view at the end of the day. Also, he goes not just in terms of the literal 16 16 meaning of the words in CS2. He goes even further Sir, there are other factors which may be peripheral 17 because he goes on to discuss the thinking behind ISO 17 but I mention them anyway. Mr Rowsell's report for 18 committee, and then he tries to extract this overarching 18 COI 2 has about seven or eight paragraphs that deal with 19 19 this very issue as well. He comes at it from principle for the purpose of his own interpretation. 20 But if one is trying to ask somebody to say something 20 a different perspective, but nonetheless is covering 21 21 very similar ground to that which is covered by about trade practice or trade custom for the purpose of 22 22 interpretation, then you need someone from that Dr Wells. So one of the points that has been 23 23 particular field to speak about those matters but not highlighted when Mr Khaw read out certain paragraphs 24 24 from Dr Wells' report was that it is hoped that there a statistical expert. 25 That's all I wish to reply. 25 will be a move away, as we go to the future, from Page 18 Page 20 CHAIRMAN: Mr Pennicott, do you have any observations? 1 1 Hong Kong requiring two lots of tests, one by the 2 MR PENNICOTT: A number, sir, but I'll try to be as short as 2 manufacturer and one by the purchaser, if I can put it 3 3 that way, and it is hoped over time that the second Sir, clearly Mr Shieh is correct, as, sir, you have 4 4 testing, ie by the purchaser, in this instance 5 indicated, that this is a Commission of Inquiry. This 5 Leighton, will no longer be required, and that would 6 is not a piece of litigation, it's not an arbitration, 6 then start to accord with the practice that happens in 7 and we are not bound by the strict Rules of Evidence. 7 many other parts of the world. 8 Secondly, as everybody has acknowledged, what this 8 I think it's that point that Mr Rowsell draws 9 issue goes to is the testing or the non-testing of 9 attention to. After 24 years, we are still apparently 10 10 7 per cent of the rebar. It is common ground, as has in the initial stage and still requiring manufacturers 11 been indicated already, that no suitable measures are to test and purchasers to test, and query when is that 11 12 recommended as a consequence of this omission. 12 initial stage going to come to an end? That's the 13 CHAIRMAN: Sorry to interrupt. Please forgive me, but just 13 context in which Mr Rowsell looks at it. But 14 approaching this on a good, common-sense basis. 14 nonetheless it's all part of the same story, if you 15 MR PENNICOTT: Yes. 15 like, or subject matter. 16 CHAIRMAN: If you have 7 per cent not tested but 93 per cent 16 Also, one points out that one of the government's 17 tested, and if you have all those testings done over 17 witnesses, Mr Lok Pui Fai, also in four paragraphs in 18 an extended period of time, and if they are all 18 his fifth witness statement, DD9/12281, also covers this 19 19 ground again, not -- and I don't suggest that he delves obtaining the necessary pass mark, if I can use that 20 term, can't you reach certain conclusions from that? 20 into questions of contractual interpretation and so 21 MR PENNICOTT: Yes, and indeed the statistics evidence that 21 forth, but again it's more evidence about the same 22 you will be hearing does indeed reach those sorts of 22 subject matter.

So, at the end of the day, we've got at least three

sources or will have three sources of evidence, factual

evidence from Mr Lok Pui Fai, Mr Rowsell's evidence,

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	Page 21		Page 23
1	Dr Wells' evidence, that you will have to consider.	1	CHAIRMAN: If it's an issue at the end of the day, then that
2	Sir, in my respectful submission, the proper	2	can be debated, and I think you can take it that from my
3	approach is to look at this on a de bene esse basis.	3	perspective, I will do my utmost to ensure that
4	I have to say I also rather agree with Mr Shieh that	4	impermissible evidence is not allowed, bearing in mind
5	having looked at the various paragraphs that are	5	that this is a Commission of Inquiry, and what the
6	objected to and try to do a rather detailed textual	6	public I think want at the end of the day, or in the
7	analysis of them, just striking those paragraphs out	7	initial instance, what the executive of this government
8	will be difficult or give rise to complications. One	8	wants, is some plain, clear understanding of the matters
9	might find oneself striking out the odd sentence but	9	that counted and how we deal with them.
10	leaving the rest of the paragraph, either because the	10	MR KHAW: I'm grateful.
11	rest of the paragraph is not objectionable, or if you do	11	CHAIRMAN: So, from that point of view, the approach is
12	take it out, some of the other paragraphs are not going	12	somewhat different from determining, for example,
13	to make sense. So there is a practical issue there as	13	contractual liability.
14	well.	14	MR KHAW: I'm grateful.
15	Sir, as I say, without wishing to be, as it were,	15	CHAIRMAN: But I'm aware of your concerns, and both
16	taking sides, I'm bound to say that it seems to us that	16	Prof Hansford and myself will bear them in mind.
17	the de bene esse approach is the right one.	17	MR KHAW: Thank you.
18	CHAIRMAN: Mr Khaw, I confess that, a bit like the man who	18	CHAIRMAN: Prof Hansford I think also feels that
19	has to have a rhinoceros described to him, I may have	19	a de bene esse approach would assist him the most.
20	difficulty conceptually with what I am supposed to see,	20	MR KHAW: Thank you.
21	but on a day-to-day judging basis, when I see it, I can	21	CHAIRMAN: Thank you.
22	recognise it.	22	MR PENNICOTT: Sir, thank you for that.
23	What I think is the case here is if Dr Wells started	23	The other application is Leighton's application to,
24	to talk about a particular matter in a context which is	24	at least for now, invite you to say that Prof Yin's
25	not permitted for an expert, I like to think that I'm in	25	second statement, that was received last evening,
	Page 22		Page 24
1	a position to be able to say, "Sorry, Dr Wells, you are	1	possibly in the early hours of the morning I can't
2	in no position to interpret that. That's not the extent	2	remember exactly now should not at this stage be
3	of your expertise. Let's leave that and move on." And	3	admitted.
4	remember, in this particular case, I've got the	4	MR SHIEH: I apologise for whispering because it was put
5	assistance of a professor of engineering who is also in	5	by Mr Pennicott as if it's my application, but it's
6	a position to say to me, "Look, we just don't need this;	6	MR PENNICOTT: Sorry, Mr Shieh is quite right. We'd better
7	it doesn't have to go here."	7	get things in the right order. It's the government's
8	So I've got that difficulty of making sure that	8	application to adduce Prof Yin's second statement, which
9	sufficient context is allowed, that we can talk about	9	is opposed by Leighton. That's the correct way of
10	matters on a realistic basis, but at the same time not	10	putting it and I apologise.
11	allowing people to stray into areas which are not areas	11	CHAIRMAN: All right.
12	of their true expertise.	12	MR KHAW: Sir, I'm afraid it's me again.
13	So I'm inclined, subject to what you say and I do	13	CHAIRMAN: That's all right.
14	wish to give you the last word, of course towards the	14	MR KHAW: First of all, Prof Yin, despite his teaching and
15	de bene esse approach.	15	other commitments, managed to come up with his response
16	MR KHAW: I have nothing further to add. I believe I have	16	which we believe is helpful about one week after we
17	said what I could say.	17	actually received Dr Wells's report. We appreciate his
1 4 0	CHAIRMAN: Yes.	18	hard work and efficiency.
18			*** 11 0 % 0 *** 1 1
19	MR KHAW: Save and except that I highlighted the issue that		We can all see from Prof Yin's response that he was
19 20	MR KHAW: Save and except that I highlighted the issue that in fact we had considered this approach previously.	20	simply trying to respond to various points raised in
19 20 21	MR KHAW: Save and except that I highlighted the issue that in fact we had considered this approach previously. CHAIRMAN: Of course.	20 21	simply trying to respond to various points raised in Dr Wells' report. In the present case, one has to bear
19 20 21 22	MR KHAW: Save and except that I highlighted the issue that in fact we had considered this approach previously. CHAIRMAN: Of course. MR KHAW: But we are having a practical difficulty. That	20 21 22	simply trying to respond to various points raised in Dr Wells' report. In the present case, one has to bear in mind that given the time constraints on all parties
19 20 21 22 23	MR KHAW: Save and except that I highlighted the issue that in fact we had considered this approach previously. CHAIRMAN: Of course. MR KHAW: But we are having a practical difficulty. That is: how are we going to address this issue of	20 21 22 23	simply trying to respond to various points raised in Dr Wells' report. In the present case, one has to bear in mind that given the time constraints on all parties as a result of the application for expert directions
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and agreements. It was rather unfortunate, but in view of that, Prof Yin found it necessary to actually produce this response, in the hope that he could kindly assist the Commission in trying to identify and also understand the differences in opinions and also the analysis between the two experts. This is the whole purpose of having his response.

In fact, Prof Yin was originally hoping to canvass the points which might be raised in the further information that Dr Wells was directed to give by last night, but since the information only came this morning, he thought that it would be helpful to submit his report first, before he actually had a chance to comment on the further information supplied by Dr Wells.

In fact, we have to say most of the points raised in Prof Yin's response would be referred to in our cross-examination of Dr Wells. In fact, we could have simply put the points to Dr Wells during our cross-examination, without actually providing any written materials in advance. But the reason why we do so is that in view of the rather technical nature of the analysis provided by the two experts, we believe that it would be helpful for everyone to have something in writing to refer to, before Dr Wells actually gives evidence.

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thought that we are being obstructive, because this is going to come out in any event, we perfectly accept that if there are matters in that document that Mr Khaw for the government wishes to put to Dr Wells, he is perfectly entitled to do so, after having tried to understand it himself obviously, and some of those matters, insofar as it tries to anticipate what might be asked of Prof Yin in cross-examination, then that would come out in any event. I'm not trying to gainsay any of these propositions.

But the point I am taking is a more practical or, one may say, forensic one. If the document is admitted -- you can call it a statement, you can call it what you want, but it would be a document on the record. It would be in the nature of let's say a supplemental report. Conventionally, if a supplemental report is put in, the party against whom that report is put in would be expected to have a chance of studying it and formulating a response before putting a certain witness in the witness box. That is the difficulty we are

I mean, fine, if you want to put it to the witness when he's in the box, without it forming part of the record as I say, so be it. But we just are concerned, if it actually is already in as a government document,

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If Mr Shieh's point is that Dr Wells has not actually had a chance to see the report, so we should not be referring to that report -- but we believe that the artificiality of that argument is that, in any event, there's no reason why we are not entitled to put the points orally to Dr Wells during cross-examination. So what practical differences would that make if we provided everyone a copy of the written documents in advance so that we could actually understand what we were trying to discuss with Dr Wells during cross-examination?

So that's in fact the basis of our application and we believe that there is no question of any procedural unfairness, because even without the written documents we would just start our cross-examination of Dr Wells.

CHAIRMAN: Yes. Thank you. So the document at this stage. it may metamorphose into something else later, but at this stage would be a sort of aide-memoire? MR KHAW: Exactly. And also, in all fairness to Dr Wells, if say after today, after he had a chance to look at the response, if he has something to add, or he wants to

make his further observations on Prof Yin's response, 23 he's perfectly entitled to do so tomorrow. 24

CHAIRMAN: Yes, Mr Shieh. 25 MR SHIEH: Mr Chairman, can I start by saying, lest it be 1 we can't preclude in future, for example, people saying, 2 "The document has gone unanswered, it's 3 an uncontradicted report"; or "You ought to have 4 a chance of dealing with it but you don't."

> Of course, Mr Chairman may remember the context within which it was put in and be able to put in all kinds of safeguards to prevent that kind of point being made. But what Leighton is concerned about is the government being able to stack up the kind of documentation or reports on its side, so as in future to be able to say, "There's a report which you have not dealt with."

More importantly, one may ask whether it actually assists, because everyone, upon seeing what the other side has said by way of an expert report, would obviously ask his own expert how to deal with it, and obviously we have also considered what to do to deal with what Dr Wells may wish to say concerning Prof Yin's report.

The Commission has not had any application on our part to put in what Dr Wells wanted to say, and I can tell you part of which is here (indicating), forming part of what I had prepared by way of cross-examination of Prof Yin.

And the pre-existing directions did not cater for

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meetings of experts; Mr Khaw said unfortunately, because of the practicalities of the matter. It did not provide for responsive reports.

So, rightly or wrongly, we have proceeded on the basis that we would just do our best, take our judgment call, be helpful to the Commission, rather than ask the expert to say, "Can you actually do a supplemental? It doesn't matter whether they understand it, just dump it in". We have actually tried to understand the point and tried to assist the Commission, in my cross-examination, to put what we believe to be the really germane points in as easily understandable as possible.

In a way, we are feeling we are penalised for trying to be helpful, because in trying to assist this Commission to try to distil the very obtuse points of statistics into understandable propositions on our part, we now see the government saying, "It doesn't matter, we just put in this supplemental report", which has the effect of stacking up the documents on the side of the government, putting us at a disadvantage because we do not have an equivalent document to speak to, and that, we would respectfully submit, puts us at a disadvantage in terms of presentation.

Put it this way: when it comes to closing submissions, they would be able to say, "Look at Yin 1, give evidence, I have little doubt that, all other things being equal and in other circumstances, the Commission would give leave to allow Prof Yin's second report in.

However, I am bound to say that I see the strength of what Mr Shieh says, and I think it's really a dual point. One, perhaps Dr Wells himself has not had an opportunity, or at least not a proper opportunity, to look at this report. It's one thing to have a question put to you by counsel orally, another thing to have something in writing, in a document, "Please read this; what do you say about it?" That's a rather different proposition, it seems to me.

Again, although -- I'm not sure whether Mr Shieh did say this -- it's not clear to me whether part of the complaint that Leighton make is that they've not had an opportunity of speaking to Dr Wells about this second report, which seems to me would be perhaps another legitimate complaint, if it were being made.

So, sir, I think it's difficult. As I say, in other circumstances I would suspect the Commission would allow this report in. But I'm bound to say the safest course seems to me, at the moment at least, is for the report not to go in formally but for the cross-examination simply to continue, and to what extent the application

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look at Yin 2." It's treated as if it's already part of their case. For us, we have Wells 1, we have my best attempt to put questions, using my best judgment, to Prof Yin, and his answer, without the equivalent of Wells 2. That, we respectfully submit, puts us at a disadvantage.

We respectfully submit that the proper way to deal with it would be, if there are points which counsel or the legal team regarded as really germane to distilling the differences between the parties, let the legal advisers do their work, crystallise them, put the questions and let the witness answer, rather than to allow the government the chance of putting in an extra report and putting us at a disadvantage.

These are the points I wish to make.

CHAIRMAN: Thank you.

MR PENNICOTT: Sir, I -- probably like you -- find myself on

the horns of a dilemma, in this sense. Obviously, I have received and, because we were not sitting this morning, have read Prof Yin's second report. I am bound to say, as I indicated earlier, my view is that it is

truly, it doesn't introduce many new matters; it is responsive to Dr Wells, and to that extent it seems to

me to be helpful. But for the constraints of time, and the practicalities of the fact that Dr Wells is about to

to introduce the report might be renewed, perhaps tomorrow, if it is then indicated that Dr Wells has had an opportunity of looking at the second report and Leightons have had an opportunity of considering it in more detail as well, with or without Dr Wells -- and of course that raises this point: we would then have to give Leightons permission to speak to Dr Wells about that second report, even though he had started his evidence, but it seems to me perhaps the government -it seems to me I don't know what the government's position would be if that situation arose.

So it's not a straightforward application or the answer to the application is not straightforward, in my view. There are a lot of countervailing considerations. Ultimately, however, it seems to me that it is what is fair to Dr Wells that matters, and I do on balance conclude that one has this fear of unfairness to Dr Wells at this moment in time.

CHAIRMAN: Yes. Thank you.

Mr Khaw, is there anything you would like to add? MR KHAW: Yes. Mr Chairman, in fact we do not intend to actually put what is stated in Prof Yin's response verbatim to Dr Wells and ask for his views. Obviously, as Mr Shieh has pointed out, we would have to digest his report before we can put relevant questions to Dr Wells

Page 35 Page 33 1 London? 1 for his views. 2 Dr Wells, good afternoon. 2 So we are not actually relying on the written report 3 for the purpose of putting all parts of the report to 3 DR WELLS: Good afternoon. 4 Dr Wells for his comments, but this is in fact to 4 COMMISSIONER HANSFORD: Can we turn the volume of Dr Wells 5 up, is that possible? Is that at this end? If we 5 facilitate everyone's understanding of the lines of 6 can't, that's okay, but it would be better. 6 cross-examination that we intend to put to Dr Wells, 7 7 MR SHIEH: Good morning, Dr Wells. Testing. when you have something in writing to refer to, given 8 8 DR WELLS: Okay. I can hear you. If I speak up a little, the rather technical analysis which has been produced by 9 perhaps you can hear me better. both experts. In fact, that is our intention. 10 10 COMMISSIONER HANSFORD: That's fine. So, on that, we could not see any practical 11 difference between putting the matters stated in the 11 CHAIRMAN: We can hear you fine now. Thank you. Excellent. 12 DR WELLS: By way of testing the volume, I would normally 12 response by referring to a written document and putting stand for the witness affirmation. I fear that if 13 the points without referring to written documents. 13 14 14 I stand, you will only see me from the waist downwards. The second point I wish to make is that, as I made 15 15 CHAIRMAN: You can take it seated, thank you, if you would. earlier, if there are points that Dr Wells would want to 16 DR BARRIE TREVOR WELLS (affirmed) 16 address in relation to Prof Yin's response, he certainly 17 would feel free to do it tomorrow, after today's 17 Examination-in-chief by MR SHIEH MR SHIEH: Dr Wells, thank you very much for being the 18 cross-examination. There will still be time for him to 18 19 19 expert witness on statistical matters for Leighton and consider this response. And I would have no objection 20 if Leighton's legal advisers would seek leave so that 20 for assisting us. 21 21 You remember you have -- hello? they would be allowed to discuss with Dr Wells on 22 A. Hello. We can see your shared content. 22 matters arising from Prof Yin's report. 23 23 Q. Dr Wells, you have given two expert reports for the CHAIRMAN: Yes. Thank you. 24 24 purpose of the Commission, one in what is called COI 1, It is a difficult one, but I do accept the strength 25 25 of Mr Shieh's proposition that there is always specifically on the holistic report, and one in COI 2, Page 34 Page 36 1 a difference between a written expert report and 1 specifically in relation to the verification report. 2 questions put in cross-examination by counsel. And 2 Can you confirm that? 3 3 while it may be, as Mr Pennicott has suggested, that by A. That is correct. 4 4 the end of today and into tomorrow we are in a position Q. Just for identification purposes, can you look at the 5 where we can say, "Right, we understand what's going on. 5 bundle of expert reports in COI 1. 6 Let Dr Wells have a look at this statement and we maybe 6 Can that be shown to Dr Wells. There's a bundle of 7 7 have to agree it tomorrow; we may not." expert reports in COI 1. Yes. 8 I think we have to work within the constraints of 8 That is entitled, "Expert report prepared by Barrie 9 9 time. It's one of these situations where unfortunately Wells", dated 13 September 2019. That is for the 10 10 we are not in a position to say, as we would be in Original Inquiry, COI 1. 11 ordinary civil litigation, "Fine. You now have ten days Do you recognise that, Dr Wells? 11 12 12 to consider that statement and give a response. You've A. I confirm I recognise that. 13 got a further ten days", et cetera. It's all been 13 Q. Can we then turn to -- I don't think we need to identify 14 rather pushed up against each other, and I think I'm 14 signatures, because you are an expert and obviously this 15 looking generally at the ability to get both sides' 15 is your report. 16 point of view in the fairest way possible. 16 Can I ask you to look at the bundles in COI 2. 17 There's a bundle called ER1, and in this bundle we have On that basis, I'm inclined at the moment not to put 17 18 in the statement but let us revisit that this afternoon, 18 your report on the Extended Inquiry, also dated 19 19 to see whether anyone has any changes of mind, 13 September. 20 20 A. I confirm I recognise that. particularly the tribunal. 21 Q. In the same bundle, there is your oral synopsis which Thank you. 21 22 MR SHIEH: Mr Chairman, with the applications dealt with, 22 you will be dealing with in due course. It's just for 23 may I now call Dr Barrie Wells --23 identification purpose so don't start yet. 24 CHAIRMAN: Yes. 24 Lastly, in response to certain requests for 25 MR SHIEH: -- who has now been seated, as we can see, in 25 information from the Department of Justice -- it's

Page 39 Page 37 1 actually in bundle AA, I think. 1 time pressure. 2 MR PENNICOTT: COI 1, ER1, tab 13. 2 MR SHIEH: So I just wish to sort of reserve the position of 3 MR SHIEH: COI 1, I'm sorry, because there was a response to 3 the expert or the experts so that it can't be put 4 the request for information by the Department of 4 against them that they had somehow still put forward 5 5 Justice. It's in the expert witness bundle in COI 1. their reports, despite having seen some suggestion 6 6 somewhere that they might have got one thing or two A. I recognise that. 7 Q. It's a document called "Dr Wells' response to government 7 wrong. That's all I wish to say at this stage. 8 8 questions", and you can see a series of questions So, Dr Wells, you've heard what we have said here. 9 9 followed by your response. Without further ado, perhaps I will hand the stage over 10 10 A. I recognise that. to you, for you to develop the synopsis that you had 11 Q. And those responses are prepared by you? 11 prepared. 12 A. Those are the answers which I prepared, yes. 12 Oral synopsis by DR WELLS 13 Q. Before asking you to develop your synopsis, Dr Wells, 13 WITNESS: Thank you. 14 there is one point which perhaps I should make clear to 14 My name is Barrie Wells. I am a statistician. 15 15 the Commission, which is this. I think I was approached to undertake this work by 16 Prof Yin gave us -- the Department of Justice gave 16 recommendation from the chairman of the Concrete 17 us the document from Prof Yin last night. We had to 17 Society, with whom I sit on various standards 18 prioritise what we were doing, because Dr Wells was 18 committees. My expertise is primarily in statistics --19 19 the FRIS stands for a Fellow of the Royal Statistics actually preparing his responses to the requests for 20 information from the Department of Justice, and so we 20 Society -- but actually my PhD is from the department of 21 did not want to bother him or trouble him with 21 theoretical mechanics at Nottingham University, and so 22 22 Prof Yin's document, until he had finalised his response I do know a little about stress and strain, which is 23 23 to the government's request for information. probably why I've been involved in the meetings with the 24 So Dr Wells has had extremely limited time to look 24 chairman of the Concrete Society. 25 at that document from Prof Yin. Now, Prof Yin's 25 The next slide, please. The holistic report first Page 38 Page 40 1 document made some suggestions that Dr Wells might have 1 and then the verification report later. So the holistic 2 got some facts wrong or might have misunderstood 2 report addresses sampling strategies to obtain the data, 3 something, this or that. We have not had a chance to go 3 and then the use of the data. I want to address those 4 4 through those matters in detail with Dr Wells. He may two points. That is what I understand I was asked to 5 or may not accept certain points put by Prof Yin that 5 look at. 6 maybe he might have misunderstood something or got 6 The key points -- next slide -- are these six main 7 something wrong. So I am going to ask him to put 7 points that I address in my report: sampling prior to 8 forward his expert reports, but what I don't want to do 8 testing couplers, in other words the desk exercise; what 9 it, as part of the hurly-burly of a hearing, for it 9 shall we do? 10 10 later to be put to him, "Oh, you have been told about Then points 2 to 6 subsequent to that -- "Having 11 Prof Yin's criticism of this work; why didn't you obtained the data, what shall we do with it? How shall 11 12 correct it immediately?" I wish it to be known that 12 we analyse it?" So we have acceptance and rejection. 13 Dr Wells has had extremely limited time. So while I ask 13 A specimen that has been identified and examined, is it 14 him to confirm his reports, I hope that it will not be 14 defective or not defective? There are various tests 15 said against him if, for example, eventually it's put to 15 involved, including the PAUT test, the direct 16 him, "You might have got it wrong" and he accepts, then 16 measurements and the number of threads. So there are 17 the point is taken against him, "Why did you then affirm 17 various reasons for rejection, and the rejection 18 your expert report to begin with?" just because he has 18 criteria, therefore, I feel need to be examined. 19 19 had limited time. We could have actually asked him, Having done that, there was a large amount of 20 "Within the time available, can you point out the 20 discussion of defective rate and therefore necessary 21 limited responses by you could", but that would not be 21 strength reduction resulting from the defective rate. 22 22 productive; that would be a half-baked attempt. Since that was also within the statistical remit, I have 23 CHAIRMAN: I understand the point. I think the point works 23 tried to address that question. 24 for both sides in the sense that it also works for the 24 Then, finally, I have made some points on the 25 professor. Both parties have been under considerable 25 consideration of the appropriate confidence level.

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If I go through those in detail, one at a time. Next slide. That's point 1: sampling prior to testing the couplers. My point here is that the outcome shows a significant discrepancy between the expected proportions. Actually I've said the word "significant" there, and significance will come up a lot in statistical discussions because it is a technical term in statistics, but it's also a general English language term, and I feel I've used it there in both its technical and non-technical senses. But you can see quite clearly that there is a discrepancy, hence it is "significant" in the non-technical sense, but then I also want to show that statistically it is significant, that we can say with a certain level of confidence that we have in making that non-technical statement about significance.

So the specific numbers involved which I believe have been already discussed earlier in the week -- we have a ratio of 26 per cent, which we were expecting, that is to say before anything has actually been looked at. All we know is the design documents, and the design documents tell us that there ought to be 26 per cent. When we actually go and look, we actually find that there's 8 per cent, 7.78 per cent, the actual ratio.

My first thoughts when I saw that was they look

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Next slide, moving on to point 2. We are moving into the acceptance and rejection. So we have now done the sampling, we've looked at it to ask, "Is it really adequate? But we have to make do with the data we've got, so what can we do with the data?" Here, I was trying to address the point that the acceptance and rejection -- "Is it defective? Is it not defective?" -was not strictly a binary measure, and therefore the whole assumption of the binomial approach is incorrect, because there are two measurements that have to be passed. There's the number of threads exposed and the engagement length. And actually there's a third part to this which is the visual assessment of whether or not the coupler is actually connected and hence whether or not it's even worthwhile taking a measurement and counting the threads.

So it's a multi-part process. It is clearly not just a binary distinction.

But my point here is more that the results are simply incompatible. You could argue that this isn't statistics, this is just numbers, but I would like to propose that statistics really is the simple things as well as the more complex ones such as hypothesis tests, and so on and so forth. As we approach the anniversary of Florence Nightingale's birth, it should be remembered

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rather different and I would have expected any statistician to have done the same thing, to have looked at them and said, "These look different". It is normal practice in fact, after having undertaken a sampling exercise, to back-check, just very quickly look and see whether or not you think the assumptions you made at the beginning were justified. And here I think it doesn't really take a statistician to look at those two numbers and say, "Mmm, perhaps not; we do need to have a closer look."

In my opinion -- so far I think what I've said is simple arithmetic but we now get on to my opinion -- so if we look at the next slide, I'm beginning to develop opinions rather than just crunch the numbers. The fact that the bias was towards the smaller number, the smaller part of the sample, so that type A was 175, type B was 62, and it's the 62 that's under-sampled, that is likely to lead to bias towards a higher number of defectives. So it's not just that we suspect that the sampling regime was not truly random and it's not just that a proper mathematical statistical test confirms our suspicions and says that we have a high probability that this is not random. We can also say that any results that come from analysing this data will necessarily lead to a more conservative result.

that Florence Nightingale made dramatic improvements to nursing care simply by drawing pie charts. The simple

statistics should not be overlooked in search of the more complicated.

All I've done here is said if we add up all of the ones where the two measurements, the number of threads exposed and the engagement length, don't match, having of course already ruled out ones with cut rebar because obviously you can't accurately count the number of threads exposed, so having made all necessary adjustments to the data set we find that 36 per cent of the direct measurements and 20 per cent of PAUT measurements simply weren't compatible with the count of threads exposed.

So the actually criterion used for deciding defective is logically incorrect. It's incompatible. It's internally inconsistent.

The next slide goes on to further analyse this idea of binomial, that actually there were at least three outcomes: defective, not defective, and discarded. This is something that I have addressed in detail in one of my notes, where I've given an example which I was hoping would be illustrative. The point being that something is only discarded in this sense: if it has already passed the first part of the test, it has already been

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classified as "not defective" on the first part of the test, which is the visual test. So the discards only come from that "not defective" pile. They don't come from the "defective" pile. So we are discarding some of the "not defectives" or, rather, discarding what, under the testing regime has at this stage decided is not defective, because it is a multi-stage process; it's not simply binary.

So obviously if you are only discarding from one pile and not from the other pile, I think it should be fairly obvious that that will lead to a bias in results, a bias towards a higher number of defectives.

Going on to the next slide, which is trying to emphasise this point, because I think it is an important point, that the binomial analysis rests on the assumption that only two outcomes are possible. I hope I have shown that actually there are more outcomes than that, if you look at it in detail. By example, for instance, if you were doing a drug trial, you might say, "It's binomial, the patient either dies or survives." Yes, but what about if the drug were to, for instance, significantly increase the lifespan with a high quality of life? Yes, the patient still died of the disease, but it's an effective drug because it had a positive effect on extension of lifespan; similarly, remission,

to look at the statistics and try to make suggestions as to how the data could and perhaps should have been analysed more efficiently to give a more scientifically reliable and justifiable answer and outcome.

So where, for instance, I have adopted a 28 millimetre engagement length, I'm not straying into engineering here. I'm not saying, "I believe this." It's a number I took from previous testimony, but I do not feel competent to say, "Yes, you must use these numbers." The numbers are not intended to be correct in the sense of, "Please use these numbers to go away and design a structure or to design remedial measures, or decide whether certain measures are required." I'm trying to indicate what might happen if the data were properly re-analysed.

The next slide, please. We then move on to the capping beam.

COMMISSIONER HANSFORD: Sorry, Dr Wells, can I interrupt you for a moment. Can you take us back to point 4 and the table. For the benefit of those in this room, could you just explain or take us through what your findings are in these various columns and what they mean? A. Certainly. I do apologise. I had written notes to go

with all these slides and then I was told I'm not allowed to bring notes into the room so I'm trying to do

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and so on.

So whenever you lump things into two classes when actually there's more classes really there, you are necessarily going to bias the data.

The next slide, please. Then we have the internal inconsistencies; that direct measurement, for instance, of engagement length wasn't given an allowance for error whereas the PAUT measurement was. Number of threads exposed doesn't agree with either of those in a large number of cases, and so on and so forth.

So rather than being binomial, it's at least multinomial, and in my opinion it should actually have used a continuous assessment model because these are continuous variables. We are looking at how much of the thread was engaged, how much is this component of the structure contributing to the overall strength of the structure. It doesn't suddenly become zero because the direct measurement was 39.999 millimetres instead of 40 millimetres.

I've tried to illustrate what effect this has in the next table, where we have acceptance and rejection criteria, and I've tried to illustrate -- I should emphasise at this point that I am not trying to design a structure here. I'm not saying these numbers should be used as the actual answers. I took my remit as being it from memory. And you are right: I meant to say here that -- for instance, assuming missing values have mean

3 of the remainder of the sample -- now, this simply means 4 that on a previous slide, I said that the samples which

5 were discarded had already been passed on the first part 6 of the multi-part test for defective or not defective.

somebody couldn't get the measurement.

7 So somebody has looked at these and said, "Yes, they are 8 definitely connected", so they had already passed that 9 first threshold, and then they were discarded because 10

> Now, I've no idea why. Could it be that the PAUT equipment couldn't be lowered into that part of the structure? Who knows? We have insufficient

information.

What I know from the statistical point of view is that those are missing values. If you were to discard them, then you deliberately bias the sample towards a higher number of defectives. So trying to compensate for this in the best way available statistically, the correct way, I believe, is to say that those values which you cannot obtain a measurement should be given the average of the measurements that you could take.

So that is the best information we have. It's standard practice. You assume that the missing values -- so what the report refers to as "discarded"

Page 49 Page 51 1 1 these next three columns, how that 35 per cent changes I have here referred to as a missing value, and where we 2 2 have a missing value I have simply given it the mean of ultimately to 9.4 per cent, if you adopt the points you 3 3 the remainder of the sample of its type. have previously made about correction of the data. Is 4 So if it was discarded because you couldn't take 4 that correct? 5 5 a PAUT measurement, then it takes the average or mean of A. That is correct, yes. 6 6 COMMISSIONER HANSFORD: Thank you. That's very helpful all the PAUT measurements, not of everything, only of 7 ones of its type. We don't want to start assigning 7 A. Moving on now -- this is a different part of the report, 8 8 and this is a part of the report that I had some values which aren't appropriate. 9 9 difficulty with, because it seems to me to be introduced So what I've done here is try to progressively 10 10 without background. improve the analysis -- or maybe not improve, I can't 11 say that 28 millimetres is actually better or worse than 11 I have since understood a fair bit more about it, 12 12 having read some of the documents that I have received 37 millimetres. That is outside my expertise. What 13 13 I've tried to do here is part-improve or part-change and in the last week or so, but initially it did seem to 14 14 come a little bit from nowhere. say there are other ways of doing this; it's up to 15 15 somebody else to decide whether this is the correct way, But the main point that I could say, given the 16 16 or which one of those is the correct way, or maybe none information that I have received, is the data set here 17 of those are the correct way, but I felt it was 17 was very small. The actual data set which was used in 18 incumbent on me to illustrate what those assumptions 18 the report was seven points or couplers on one side and 19 19 11, from memory, on the other side. And the assumptions would entail or what would happen if you make those 20 20 behind the analysis method used to calculate the assumptions. 21 So we start off with the left-hand column -- 366, 21 strength reduction factors are flawed; that's my middle 22 22 point there. 332, 350 -- that's what was in the holistic report. 23 23 One of the reasons for this -- I don't want to get Then, if we replace it with the mean of the remainder of 24 24 into details of statistical methods here, but the sample, we get the next column. Then, if you adopt 25 an engagement length cut-off but still discard the 25 I understand from reading the background materials that Page 50 Page 52 samples, then you get the next column. Then, if you do 1 1 the method that was used employed the Delta method. 2 both, you get the final column. So the final column is 2 It's actually a very complicated piece of statistics 3 doing both the correction for discarding -- introducing 3 that has been undertaken to come up with this, and 4 bias but discarding previously passed samples, and also 4 somewhere in the middle of it there was the recourse to 5 changing the cut-off to 28 millimetres. 5 the Delta method. COMMISSIONER HANSFORD: So, Dr Wells, forgive me again for 6 6 The Delta method is basically a large-sample 7 interrupting -- so just to understand that by way of 7 approximation and it works well when the samples are 8 example, if you take the bottom line of your table, just 8 above 30, and here the sample sizes were 7 and 11. So 9 the bottom line at the moment, the holistic report tells 9 I think it's fair to say that 7 and 11 are not above 30, 10 us there should be a 35 per cent strength reduction 10 and therefore the use of the method is not valid. 11 factor. Is that correct? 11 I'm just saying that to give you some indication of 12 A. Yes. This is calculated as being a 95 per cent upper 12 my reasons for saying that the method was flawed. 13 13 I say it's a really complicated piece of 14 COMMISSIONER HANSFORD: Yes. 14 mathematical statistics. I think it's actually very 15 A. So all I've done is adopted exactly the same convention 15 difficult to get right. So I would tend to sidestep the 16 as in the holistic report. So I'm not trying to pass 16 whole thing and suggest the Monte Carlo approach, which 17 judgment here on whether that method is correct. 17 I did just to see how it worked. I'm not saying that my 18 COMMISSIONER HANSFORD: Okay. 18 results should be used to construct a structure, to make 19 A. But yes, that's correct, the 0.35 means that the 19 decisions. I'm simply trying to indicate a more 20 holistic report then went on to say this means there is 20 scientifically accurate, better way of analysing the 21 the 35 per cent strength reduction due to the number of 21 22. defectives. 22 Next slide, please. Then finally, there's this COMMISSIONER HANSFORD: And sticking with the logic of the 23 23 whole consideration of appropriate confidence level. So 24 holistic report -- I know you are going to come on to 24 the Standing Committee states -- and here I'm simply 25 other points later -- you are then showing, through 25 quoting CS2:1995 and CS2:2012 -- that a threshold value

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"exact" method.

COMMISSIONER HANSFORD: Right.

A. It's just a way of trying to calculate the confidence

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should be an upper limit of the statistical tolerance interval at which there is a 90 per cent probability that 95 or 90 per cent of the values are at or below the upper limit, at which point one would naturally pause for breath and ask, "What does it mean?"

It does touch on some quite arcane points of statistics, but the main point I would say here is that the only consistency in that is 90 per cent. So we have 90 per cent probability, there's no 95 per cent probability, it only says 90 per cent probability, and that either 95 per cent or 90 per cent of the values are at or below. Why do we give the choice? For context. How do you choose the context? Well, it doesn't actually help reading the CS2s, but if you read the ISO standards then there are tables which help you decide. Hence my point elsewhere that I feel the ISO standards are useful in helping to interpret the CS2s.

But regardless, where there is no choice, it's 90; where there is a choice, it's 95 or 90. So I think that it behooves us to at least look at how the figures would have panned out had we used 90 per cent, and so I did actually include that in my slide after next.

But the next slide I simply included because I thought this might come up and I wanted to be able to say, "Can I please refer to this?" This is my rather

1 you have in that upper limit, once you've set the upper

> 2 limit, based on how much of the data you want to be

within a certain interval.

COMMISSIONER HANSFORD: That's helpful. Thank you.

A. So all of that was simply by way of justifying the fact that I've reworked the numbers with 90 per cent and found that the value in the holistic report, which previously was 0.366, comes out to 0.304 on a 90 per cent limit, and then so on and so forth for my successive changes, so that if we more correctly use the missing values however many the sample, we 0.308. I actually have a feeling that I've made an arithmetical slip there and I will hopefully get an opportunity to explain that later. Because I would have expected it to have been less than 0.304. I think I may have transcribed a number incorrectly in my haste. Sorry about that.

But then when we get down to the 28 millimetres, and 28 millimetres plus assigning the mean, we actually get substantially lower strength reduction factors.

Now, I'm not actually advocating that we use those strength reduction factors. I was asked for a statistical opinion, and my statistical opinion is that the references tend to favour a 90 per cent limit, and therefore you might consider it surprising that the

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crude attempt at trying to separate out that 90, and 95 or 90. The whole point is there are two separate statistical concepts being bundled into one there: that you get a confidence interval, which is how much of the data do you expect to lie within a certain interval. So that's the red line on this graph. Then, having set that confidence level, there is this upper bound, there is then actually a statistical confidence in the data that is available to predict that upper bound. And what we find, in the data set we've got at the moment, is that that data upper bound is not symmetric, and therein lies a lot of the problems with the methodology that was used to derive the capping beam statistics. Moving on to the next slide --COMMISSIONER HANSFORD: Sorry, Dr Wells, before you do,15 what's the reference to "Wilson" on that slide?

16 A. Sorry, it's just because I didn't redraw it. I stole it 17 from a reference which I think I originally put in. 18 Wilson is another technique for doing what the 19 holistic report did to come up with the confidence in 20 the binomial. It's variously referred to in supporting 21 documentation as the Clopper-Pearson method or the 22 90 per cent limit was never actually addressed in any of the reports. So I was simply trying to redress the balance.

Then the next slide, again, is still 90 per cent, but this time looking at the capping beam data and trying to introduce a more scientifically justifiable usage of the data so that instead of discarding values which have already passed a part of the test, instead replace them with the mean, and hence my row there, "Missing values"; that simply means I have assigned the mean value where previously it was ignored, and re-incorporated it into the analysis, to have a mean, variance, type A, type B, and combined.

So again this is not intended to be a table on which I would like anybody to go away and construct a building. I am trying to illustrate alternatives because I felt that was my brief. That is pretty much all, I think, I have to say on the holistic report.

So we then have the Extended Inquiry verification report, which is all to do with the quality of rebar, which has been touched on already in this session.

So we have: the level of confidence in the quality of rebar that was not re-tested on site; and a calculated strength reduction factor. If I could quickly go through those. The next slide

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is simply an extract from CS2:1995:

"The long-term objective is to rely on the third party certification ..."

I shouldn't need to read this because it was already read out to the tribunal earlier this session, and somebody pointed out that this was 25 years ago -- or 24 years ago, according to 1995, but of course that's when it was published; it was actually written at least a year before that -- so hence at least 25 years ago we were supposedly moving towards a single testing regime and we are still moving towards.

So the next paragraph: "Level of confidence in the quality of rebar that was not re-tested on site" -- this is I think the key point. I put it in quotes because it is a quotation directly from CS2:1995. How much confidence do we have in the quality of the rebar that was not re-tested on site? I think this is key, this is critical, and the word "confidence" I am interpreting in a statistical sense, so we should be able to put a number on this, a figure: are we 90 per cent, 95 per cent, 99 per cent or whatever confident?

The way I approached this was by saying we have the mill test certificates, we know what the manufacturer has measured for these samples, and there are three sets of measurements for each sample, for each batch.

Page 59 likely situation. So the correct way of approaching

this is to ask the question: could those actually be different? What's the chances that a mean of 507 and a mean of 517 were obtained from completely different batches or by a completely different method or whatever,

given that amount of variance?

Now, 507 and 517, you could say they are fairly similar, or you could say, actually, they are quite different, they are 10 megapascals' difference. The key point is to look at the variance. If we have a variance of 121 on 507, that means that number, 507, could vary quite a lot on either side. Similarly, a variance of 91 on 517, it could vary quite a lot on either side.

So what are we to do? Well, we -- the next slide, I think -- what we do, or should do, as statisticians, is apply a hypothesis test. This removes the need for any assumptions. We don't need to ask are all the rebar homogeneous? Well, we know we are not, but we know how much they are not, we have calculated the variance. So we know this, we have a number, we can account for it.

Differences among manufacturers? Easy. We simply do the statistics for each manufacturer separately. It automatically accounts for natural variation in rebar. This is the basis of most statistical analysis, the hypothesis test. Is it likely that two slightly

1 different numbers are disagreeing with each other, or 2 could most likely come from the same parent population? 3 It's a basic tool, the hypothesis test. It's used every

4 5 6 7

day, for everything from building bridges to planning economies. It was actually described by one eminent scientist as the most dramatic scientific advance of the 20th century. And if we use it on this data, it shows that within

the tolerances specified by Hong Kong's Standing Committee on Concrete Technology, we can state that the untested rebar would have passed, had it been tested. Okay, we can state that. It doesn't mean that it would have done; it means that the statistics say that. So we have confidence, in other words. It's not a statement of fact in the same way as two plus two equals four. It simply says there is no evidence, no credible evidence, that the untested rebar would have failed, and I believe that that is the correct way of undertaking the analysis.

The next slide. The way the analysis was actually undertaken, as I understand it, as is written in the holistic report, is that it was based on the assumption of a worst-case scenario. In other words, if 55 out of 110,000 samples had failed in the last ten years, then if we assume that all of the rebar that wasn't tested

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There's the yield stress, the ultimate tensile stress and the ratio of the two, and all three measures have to pass in order for the sample to pass.

Then there are various subclauses which say that if one fails, one specimen fails, then you are allowed to take two more and re-test those. It doesn't actually specifically state whether, if one of those fails, you can also replace that with another two. The implication is you can, but it's not actually clear on that point, and certainly there's nothing that says that you can't.

But anyway, back to the numbers. So we have the manufacturers' numbers and we have the purchasers' numbers, where by "purchasers' numbers" I mean the numbers as supplied by MTRCL's HOKLAS-accredited laboratory, in accordance with CS2:1995.

So in megapascals, we have the first three numbers, 507, 496 and 518, which give you a mean of 507 and a variance of 121. Test results supplied by the manufacturer: 516, 508, 527, a mean of 517 and a variance of 91.

The question is do they confirm each other or do they not confirm each other?

This brings us to another interesting point of statistics. Statistics never actually proves anything. It can simply give us an idea as to what is the most

Page 63 Page 61 1 also failed, then the probability of that situation, 1 First of all, Dr Wells, I don't pretend to know much 2 2 that worst-case scenario, can be calculated by -- so the about statistics, and for this reason, in my 3 first one failing, that would be 55 over 110,000, so the 3 questioning, I may have to pause from time to time so as 4 second one failing, that would be times 55 over 110,000, 4 to allow myself to digest your answer, gather my 5 and if there were about 130, from memory, untested 5 thoughts and prepare for my next question. So please 6 samples, then we multiply this 55 over 110,000 by itself 6 forgive me and bear with me. 7 137 times, and that's where I come up with the figure 7 The other point I would like to make before I start 8 of: this is so unlikely that it's actually more likely 8 is that we have received your supplemental information 9 that two of us would accidentally, purely by chance, 9 this morning. I myself haven't had the time to go 10 10 pick the same atom from all the atoms in the known through all the details or to seek advice from Prof Yin, 11 universe. 11 so it is quite possible that some of the answers of my 12 In other words, I feel that it is an incredibly 12 questions may have been provided by you in your 13 unlikely worst-case scenario and therefore not really 13 supplemental information. So, if this happens, please 14 usable. 14 just let me know; okay? 15 By way of comparison, whenever the HOKLAS-accredited 15 A. Okay. 16 laboratory tests a batch of rebar, it takes three 16 Q. Now, the first topic that I would like to discuss with 17 specimens as a sample and tests them. Now, it's just 17 you is about the issue of randomness. On this 18 possible that those three specimens were the only ones 18 particular issue, you deal with it in paragraphs 4.3 to 19 in the entire batch which were going to pass the test. 19 4.5 of your reports. 20 Highly unlikely but it's possible. And if you take that 20 Just to make sure I understand your reasoning, your 21 worst-case scenario, you actually find -- do the maths, 21 way to develop this point, isn't it, that first of all 22 crunch the numbers -- that that situation is more 22 you consider the total number of diaphragm wall panels, 23 23 credible than this worst-case scenario that was used to which in this particular case is 237, and you take the 24 come up with strength reduction factors of 4 per cent 24 number of panels without capping beams of 175 panels, 25 and 13 per cent. 25 and 62 of the other panels are with capping beams, and Page 62 Page 64 1 So I believe that those factors are simply not 1 on that basis you work out that the number of panels 2 2 credible and that a correct analysis is based on the with capping beams represents about 26 per cent of the 3 3 hypothesis test that the manufacturers' and purchasers' total number of panels; is that right? 4 4 A. I believe so. tests for the available rebar are compatible and likely 5 to come from the same population. 5 Q. Then you look at the number of specimens. Now, there 6 So that is a quick run-through of what I think I was 6 are altogether 90 specimens, and after the sampling 7 7 asked to do, and I presume now I am to take questions on exercise 83 specimens were from panels without capping 8 8 beams, which you describe as type A samples; correct? 9 MR SHIEH: Thank you very much, Dr Wells, for your 9 A. Yes. Sorry, just a point: I don't think I describe them 10 10 exposition. as type A samples. I think I'm quoting there from 11 a document which was supplied to me. So that isn't What follows next would be counsel for other parties 11 to ask you questions. I believe the government would 12 12 actually my description. I'm simply copying it from 13 ask you questions first, followed by the MTR, and then 13 somebody else's. That's why it's in quotes and in 14 counsel for the Commission, Mr Ian Pennicott, would go 14 italics. 15 last in asking you questions, a sweeper, so to speak. 15 Q. That's fine. Now, we know that 83 per cent specimens 16 Mr Chairman and Mr Commissioner may ask you 16 were taken from panels without capping beams, and seven 17 17 specimens were from panels with capping beams, which you questions any time they wish to, and after that I will 18 18 have a chance, if I wish, to ask you questions in work out the ratio and you arrived at 7.7 per cent of 19 19 samples of specimens from panels with capping beams; re-examination. 20 I hope that is all clear and please remain seated 20 right? 21 while other counsel ask you questions. 21 A. I believe so. 22 22 Q. Then you compare the 26.1 per cent of the diaphragm wall WITNESS: Thank you. 23 Cross-examination by MR CHOW 23 with capping beams, with the 7.7 per cent of specimens 24 MR CHOW: Good afternoon, Dr Wells. I act on behalf of the 24 that come from panels with capping beams; right? 25 government and I have a few questions for you, Dr Wells. A. I believe so.

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- 1 Q. And because of the apparent disparity between these two
- 2 percentages, 26 per cent and 7.7 per cent, you then try
- 3 to determine the probability of these happening, and you
- 4 arrive at a probability of about 1 in 1,000; right?
- 5 A. Yes.
- 6 Q. Now, you then say because the probability of this
- 7 happening is small, then in turn it suggests that
- 8 perhaps the sampling exercise was not random. Is that
- 9 your point?
- 10 A. Yes.
- 11 Q. So, as I understand it, you are using the end result of
- 12 the sampling exercise to assess the randomness of the
- 13 sampling process; is that right?
- 14 A. Yes.

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- 15 Q. Please help me to appreciate this reasoning, and I would
- 16 like to apply it to a real-life situation. In
- 17 Hong Kong, we have a lottery. As I understand it, in
- 18 the UK there is a similar lottery. In the UK it's
- 19 called the National Lottery. You know that?
- 20 A. That is correct.
- 21 Q. The way it works is that a certain set of numbers will
- 22 be drawn, under the lottery systems. In Hong Kong, each
- 23 time we draw six out of 49 different numbers -- so each
- 24 ball will bear a certain number, and I understand the UK
 - is of a similar system. I was told that in the UK you

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- 1 have 59 numbers, so 59 different balls.
- 2 MR SHIEH: My junior says you draw seven numbers in
- 3 Hong Kong.
- 4 MR CHOW: The last time I participated in the Mark 6 was
- 5 some years ago, because, as I never won any Mark 6, so
- 6
- 7 Now, every time a set of numbers is drawn, if you
- 8 look at that particular set of numbers and try to
 - calculate the probability of that particular set of
- 10 numbers being drawn, we always arrive at a very small
- 11 probability.
- 12 Now, I was advised that if, as in Hong Kong, if we have to draw six numbers out of 49, the probability of 13
- 14 getting it right is one in 12 million, around one in
- 15 12 million; this is the chance. Right?
- 16 But as a layman, I would not -- although the chance
- 17 of getting that particular set of numbers is so small,
- 18 I would not consider the lottery process is in any way
- 19 not random. Would you agree?
- 20 CHAIRMAN: I don't understand.
- 21 A. The lottery process has been designed to be completely
- 22 random.
- 23 MR CHOW: Right. If I go a step further, if the same set of
- 24 numbers repeatedly comes up in a subsequent lottery,
- 25 then perhaps, in such circumstances, we may start to

doubt about the randomness in the process; do you agree?

- A. Yes, I would agree.
- 3 Q. So, now, if we then go back to Prof Yin's sampling 4 exercise. According to the evidence, he only carried 5 out the sampling exercise once, and he arrived at

6 a ratio of 7.7 per cent. Now, you say that because the 7 chance of this happening is so small, then it suggests

8 it is not random.

> Applying the same analogy that we have just discussed, if Prof Yin carried out another sampling exercise the following week, and if the result of the second sampling exercise gives the same percentage, 7.7, then perhaps, in such circumstances, we may have a reason to doubt whether the sampling exercise was not random. But the fact that Prof Yin has only carried out the sampling exercise once, if you agree with me in relation to the lottery, then I would suggest to you that that is no reason for us to doubt the randomness in

the sampling exercise carried out by Prof Yin. Would

- 21 A. No.
 - Q. On the basis of one set of results, you said --
- 23 A. I think the point you are missing is "one set of

you agree with me?

- 24 results". You are referring to one specific result from
- 25 the lottery and then trying to draw a conclusion about

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- a set of 90 results by looking at rebar.
- 2 If you were to look at 90 lottery results and you
- 3 were to find that, of those 90 lottery results, 83 of
- 4 them had come up with exactly the same numbers, you
- 5 would probably be demanding your money back if you had
- 6 bought a ticket because you would think it had been
- 7 fixed.
- 8 Q. Dr Wells, but your complaint is in relation to the
 - percentage, 7.7 per cent rather than 26.1 per cent that
- 10 you expect. So we don't have 90 lottery. We only have
- 11 one lottery.
- 12 A. Exactly --
- 13 Q. Prof Yin carried out the sampling exercise once and he
- 14 arrived at 7.7 per cent.
- 15 A. No. I think you're missing the point. The random
- 16 sample is of size 90. If you took a random sample of 17
 - 90 lotteries -- they do the lottery every week in the
- 18 UK, I don't know how often it is in Hong Kong, but
- 19 let's -- you introduced the UK one so I will concentrate
 - on that. If you look back on the last 90 weeks of
- 21 lottery and you find that, of those 90, a large number
- 22 of them have got very similar numbers, then you might
- 23 begin to doubt the process. You might begin to think
- 24 that perhaps the mechanism had gone wrong or got stuck.
- 25 I'm not saying we prove anything by doing this analysis.

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If you read 4.5, for instance, which is on the screen in front of us, it says:

"The probability that this sample was random can be estimated using a hypothesis test ..."

At no point do I say this is not random. I cannot say it is not random. There is no concept of saying something is or is not random. All we can say is that, having undertaken a sampling exercise, it is normal procedure to back-check.

The lottery example isn't appropriate. What you might like to consider, for instance, is polling in front of an election. If you were to poll a number of people and after polling them you found that 90 per cent of the people you had asked were male and 10 per cent were female, you might begin to think that the results you had got would possibly not accurately predict the results of the election because, in the election, you would expect 50 per cent of the electorate to be male and 50 per cent to be female. So you might think that something's gone wrong, and what you would do, probably, is go back and look at the way you chose your sample, and you might say, "I wonder if we only canvassed people who were coming out of" -- and I'm trying to think of a venue where you would get more males coming out than females and I'm afraid I'm failing, but hopefully you

1 Now, the 26.1 per cent is the ratio of the two types of

- diaphragm walls, one with capping beams and the other
- 2
- 3 diaphragm walls without capping beams; whereas the
- 4 7.7 per cent is the ratio of couplers. Am I right in 5 thinking that what you ought to compare the 7.7 per cent
- 6 with is the corresponding number of couplers in
- 7 diaphragm wall with capping beams, and corresponding
- 8 number of couplers in other set of diaphragm wall
- 9 without capping beams?
- 10 A. I'm sorry, I simply read the documents and, using your
- 11 simplification and referring to these as apples and
- 12 oranges, I read it as 175 apples and 62 oranges, and
- 13 83 apples and seven oranges, and I simply, without
- 14 knowledge of how many or whatever or the structure,
- 15 I simply said that if you went to the grocers and
- 16 randomly picked from 175 apples and 62 oranges and you
- 17 actually came out with 83 apples and seven oranges, then
- 18 I would say that you were disproportionally sampling the
- 19 apples.

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Does that answer your question?

- 21 Q. I have to confess that I'm totally confused. I need to 22 take some time to digest this part.
- 23 COMMISSIONER HANSFORD: I think that was quite clear.
- 24 MR CHOW: Right.
 - 175 -- if I read the transcript, what, Dr Wells, you

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- 1 get my gist. 2
- COMMISSIONER HANSFORD: Perhaps a rugby match.

What you do is you start off by saying, "I'm hoping to

- 3 A. Sorry, you don't prove something is or is not random.
- 5 conduct a random test, I'm hoping to get a random
 - sample." Afterwards, it is normal procedure to at least
- 7 back-check. Maybe there's nothing you can do about it
- 8 but it is extra information which you get for free so
- 9 you should do it.

What I'm saying is that (a) that wasn't done in this case, so I try to draw attention to the fact that in my view this was a major omission, and (b), had it been done, it would have cast doubt on the actual randomness of the data. I've never said and never would say that the data is not random. I couldn't say that, nobody could. All I can say is that the numbers statistically cast doubt on it, and that is not my view. That is simply first year undergraduate statistics.

MR CHOW: Thank you, Dr Wells.

My next question is the diaphragm wall panels that we have been talking about, do you know the number of couplers in each diaphragm wall panels?

- A. No, I don't think so.
- Q. So am I right in thinking that when you compare the two percentages, you should be comparing apples with apples?

- 1 have just said is 175 apples and 62 oranges, but if 2
 - I try to correlate with these two figures, the 175 are the panels without capping beams, whereas 62 is the
 - panel with capping beams; right?

5 So the ratio of 26 per cent is the ratio between 6 apples and oranges; is that right, according to your

- definition?
- 8 A. Yes. It might be helpful to introduce a little bit of 9
- statistical jargon here.
- 10 Q. No, please do not!
 - A. Simply because it will make it easier, I think, to

12 understand. 13 The 175 numbers of them are without capping beam

- 14 details and 62 numbers of them are with capping beam 15 details would, in statistical terms, be referred to as 16 "the population". So that is everything, everything
- 17 that we know about. So, from the construction record,
- 18 the population is 175 and 62. And then, after my
- 19 ellipses, it says by the total number of samples, the
- 20 random sample size is 90 and the number of type A
 - samples is 83 and the number of type B samples is seven.
- 22 Technically, that's rather sloppy use of terminology
- 23 because they don't mean samples, they really meant
 - specimens. The sample is actually whole thing, the 90.
 - So the population is 175 and 62. Whether they are

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- 1 apples, oranges, capping beam details or whatever
- 2 I don't think is important for the statistics. The
- 3 sample is size 90, made up of 83 of one and seven of the
- 4 other. All I'm saying is that if you follow a very
 - basic statistical technique which is universally
- 6 recognised for judging whether or not a sample is
- 7 a likely example of its population, then you find that
- 8 because 83 to seven is so different to 175 to 62, the
- 9 probability that you've got it right is low, in exactly
- 10 the same way as if you were polling for an election and
- 11 you had asked 90 males and ten females, you might
- 12 reasonably think that you'd made a mistake and that your
- 13 results are unlikely to be useful in predicting the
- 14 results of the next election. That's all I'm saying.
- 15 Q. Dr Wells, just now you said you don't have the number of 16 couplers in the diaphragm wall panels. Now, when you 17 talk about one population, 175 panels without capping 18 beams and 62 panels with capping beams, the ratio you 19 determined -- if you simply compare 175 with 62, you 20 have 26 per cent, but if you compare the total number of couplers within this group of 175 panels, with the total 21
- 22 number of couplers within another group of 62 panels
- 23 with capping beams, you may not have the same
- 24 percentage, 26.1 per cent, because the number of
- 25 couplers in each panel are different. Do you agree?

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- A. I can neither agree nor disagree. All I can do is tell you that if what you say is correct, then it completely
- 3 pulls the rug out from underneath all of the
- 4 mathematical analysis that followed on from this,
- 5 because everything that followed on from this then
 - assumes that you could multiply these numbers up by
- 7 assuming a ratio of 175 to 62.

report you should hope so.

- So, if you can't assume the ratio of 175 to 62 is actually the ratio in population, then yes, you are right that my subsequent analysis in 4.4/4.5 might need to be revisited, but unfortunately everything in the
- So I'm really not competent to say whether 175 to 62 is the correct ratio to use for applying elsewhere, but I would suggest that for the benefit of the holistic
- Q. All right. I think that's enough for the present

holistic report then gets thrown out as well.

- Can I just ask you a few more quick questions and then I think it's time for us to adjourn. Earlier, in answering my question, you mentioned about the sampling process. Do you agree with me that a more accurate to
- 23 consider whether the sampling exercise is random is to 24 look at the actual sampling exercise performed?
- 25 A. I had tried to just look at the numbers here. What I'm

saying here is that based on the numbers, there is very

strong evidence that the sampling procedure was biased;

furthermore, that it was specifically biased towards

4 being used to generate a higher number of defectives. 5 That much is simple arithmetic.

> The question as to how the sampling process was arrived at is something that I did not address in any of my reports, but if you are asking me specifically now then I would say that the sampling process is actually incompatible with the analysis which was done to calculate a sample size for a given confidence level.

So we have these figures of 50 having been originally suggested and then it increased to 84 as being a minimum number in order to obtain a result valid at a 95 per cent level.

Now, that analysis assumes that the process was a single-part sampling process. So, for instance, to take the polling analogy, you simply stop people in the street and you ask them. What was actually undertaken, as I understand it, was a two-part process whereby there were 28 random locations and, at each random location, three random specimens were chosen. That's a two-part process, and the analysis which was used to arrive at the number 84 does not apply. MR CHOW: Thank you, Dr Wells. I understand we have some

actual constraints here, we need to stop at 5.00.

2 Mr Chairman, I see that we are --

3 CHAIRMAN: Just after 5.00. All right. Okay.

MR CHOW: Perhaps we need to continue tomorrow then.

5 CHAIRMAN: Yes.

> Dr Wells, unfortunately, even though it's bright and early in the morning for you, or reasonably early, we are moving into the evening here, and because of time constraints -- we have other matters, a couple of the counsel have other matters on -- so we are going to have to leave it now until tomorrow. I'm very sorry about that. I hope you were anticipating the prospect of having to come back tomorrow.

WITNESS: I was indeed. Thank you.

I know that I am subject to the good offices of the people sitting around the table with me, but I am perfectly happy to start earlier tomorrow, if the building here was open earlier, and I can see somebody nodding their head. So if you want me to be available earlier tomorrow, that's fine by me.

CHAIRMAN: What time? You tell us and get some more nods from those around you and then we can agree that, I'm

24 WITNESS: 6.30? Would that help the Commission if we were 25

CHAIRMAN: 6.30? Wow. That's very good. For us, it's case, but for you —will you be reasonably acethy? WITNESS: That saying in a host plus around the corner. They don't serve breakfast until 7, so I will thave to make armagements to get analysiches stocked in sonight. In the your speciments to get analysiches stocked in sonight. CHAIRMAN: If he is prepared to start at 6.30, we can start at 1.30. That sounds excellent. WITNESS: Okay. If that's all right? Yes. CHAIRMAN: Thank you we much indeed. Dr Wells. Thank you! CHAIRMAN: Thank you very much indeed. WITNESS: Okay. If that's all right? Yes. We will start 6.30 tomorrow morning make the linkup, UK time. Okay? WITNESS: Okay. Thank you. WITNESS: Okay. Thank you. CHAIRMAN: Thank you very much indeed. WITNESS: Okay. Thank you. CHAIRMAN: Thank you very much indeed. WITNESS: Okay. Understood. WITNESS: Okay. Understood. CHAIRMAN: Yes, of course. Thank you very much indeed. WITNESS: Okay. Understood. WITNESS: Okay. Understood. WITNESS: Okay. Understood. CHAIRMAN: Yes, of course. Thank you very much indeed. WITNESS: Thank you. COlin, we gust wanted to start at 6.30 tomorrow; is that okay? Page 78 CHAIRMAN: It hink what's actually being said off stage is, "Are you mad?" But they are committed now, so there we are. CHAIRMAN: Let's go. All right. MR KILAW: Perhaps, Mr Chairman, I just want to make one point. While we may need to continue to revisit the status of Prof Yin's analysis or Dr Wells analysis. The point is this. I fully appreciate Mr Sheh's concern that if we put in Prof Yin's report, he will be deemed to have accomen that if we put in Prof Yin's report, he will be deemed to nave a cornel to a start of an our closing submissions. we may run a point that since the point wish in the report, he will be deemed to nave a cornel to a fine prof Yin's report, he will be deemed to nave a cornel to the proport, he will be deemed to nave a cornel to a fine prof Yin's report, he will be deemed to nathay on the proport, he will be deemed to nathay th		Page 77		Page 79
2 cssy, but for you will you be reasonably nearby? 3 WITNESS. In staying in a hotal just around the corner. 4 They don't serve breakfists untol?, so I will have to make arrangements to get sandwiches stocked in tonight. 5 make arrangements to get sandwiches stocked in tonight. 6 but In any our disposal. 7 CHAIRMAN: If he is prepared to start at 6.30, we can start at 3.0. That sounds excellent. 8 at 1.30. That sounds excellent. 9 WITNESS: Okay. If that's all right? Yes. 10 CHAIRMAN: Thank you very much indeed, Dr Wells. Thank you. 11 That would be of great assistance to us. 12 We will start 6.30 tomorrow morning, make the 12 during cross-examination. 13 WITNESS: Okay. Thank you. 14 WITNESS: Okay. Thank you very much indeed. 14 I would gain eminion to you, as a wirness, whatever 6 descause your evidence with anybody, without the 9 descause your evidence with anybody, without the 19 descause your evidence with anybody, without the 20 permission of myself, between now and tomorrow. 20 Colla, we just wamed to start at 6.30 tomorrow; is 24 during cross-examination. 21 (CHAIRMAN: Yes, of course. Thank you very much indeed. 22 (CHAIRMAN: Wits, of course. Thank you very much indeed. 23 (CHAIRMAN: Thank you were proposed thank you have the opportunity to ask br Wells to comment on those points while this issue of administiplity is still not decided? because time is 24 during cross-examination. 24 (CHAIRMAN: Let's go. All right. 25 (CHAIRMAN: Let's go. All right. 26 (CHAIRMAN: Let's go. All right. 27 (CHAIRMAN: Let's go. All right. 28 (CHAIRMAN: Let's go. All right. 39 (CHAIRMAN: Let's go. All right. 30 (CHAIRMAN: Let's go. All right. 31 (CHAIRMAN: Let's go. All	1	CHAIRMAN: 6.30? Wow. That's very good. For us, it's	1	give a response to that, he is deemed to
3 WITNESS: I'm staying in a hotel just around the comer. 4 They don't serve breakfast until 7, so I will have to 5 make arrangements to get sandwiches stocked in tonight. 5 but I'm at your disposal. 6 but I'm at your disposal. 7 (HAIRMAN: The kis prepared to start at 6.30, we can start at 1.30. That sounds excellent. 9 WITNESS: Okay. If that's all right? Yes. 10 (HAIRMAN: Thank you very much indeed. Dr Wells. Thank you. 11 That would be of great assistance to as. 12 We will start 6.30 tomorrow morning, make the 13 inkbup, UK time. Okay? 13 WITNESS: Okay. Thank you. 14 WITNESS: Okay. Thank you. 15 CHAIRMAN: Thank you very much indeed. 16 I would just mention to you, as a wimess, whatever 16 will obdition the your vidence with anybody, without the 19 discuss your evidence with anybody, without the 20 permission of myself, between now and tomorrow. 14 WITNESS: Okay. Understood. 15 CHAIRMAN: Yes, of course. Thank you very much indeed. 16 I will will be able to discuss your evidence with anybody, without the 20 permission of myself, between now and tomorrow; 20 WITNESS: Thank you. 20 WITNESS: Thank you. 21 WITNESS: Okay. Understood. 22 WITNESS: Okay. Understood. 23 WITNESS: Okay. Understood. 24 WITNESS: Okay. Understood. 25 WITNESS: Okay. Understood. 26 ChairmanN: Yes, of course. Thank you very much indeed. 27 WITNESS: Thank you. 28 Witness of the properties of properties of the properties of properties of the prope	2	· -	2	
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points they regard to be germane to Dr Wells in cross-examination rather than for us to ask Dr Wells to comment on that as part of our own evidence. Secondly, I take on board Mr Chairman's suggestion that what if we are allowed to speak to or to deal with Dr Wells overnight and ask him to come up with a responsive document. But, Mr Chairman, it would be unsatisfactory because, if I can put it bluntly, in terms of producing a document, the government has had about a week and we would be working under extreme time constraints CHAIRMAN: I'm not thinking of you producing a document so much. I'm thinking more of that if you had an opportunity to look at that and discuss it with him, then Dr Wells may be in a position to make some oral response tomorrow of a more cogent and focused kind. That's all. MK SHIEH: Well, he can look at it so as to be prepared for what may be put to him, but what puzzles us is what is in this day and age, when one talks about distrust of the government or whatever, one tends to think why is is is oimportant for the document to be in as a document? If they want Dr Wells to be able to give a more consideration, I may still not be able to consider it", but that would be a matter for Dr Wells. CHAIRMAN: We appreciate that. MR SHIEH: So it's really a matter of whether my learned friend is somehow insisting on filing the document as a document; and if so why is he so insistent? CHAIRMAN: All right. WR KHAW: Mr Chairman, my suggestion is in fact simply: address Mr Shieh's concern because his concern is that Up Wells has not been given a chance to study the document. We say that if Dr Wells has any further observation or comments, after he has had the benefit of looking at that document, then of course he will feel free to say so. This will be helpful to us, and this would also address the point of any kind of unfairness that Mr Shieh has been complaining about. And also the purpose of having this document is that when Prof Yin comes forward to give his presentation, no doubt he will f
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7 MR SHIEH: Without actually having to attach a special 7 CHAIRMAN: Dr Wells, there is what may best be termed
8 status to admitting a document, because one might ask 8 a responsive document that has been prepared by the
9 why admit the document to put it on file? 9 professor, and there has been some argument you
10 CHAIRMAN: All right. Fine. Whether one wants to admit the 10 probably heard it earlier about the value of that
document on that basis, that this is just 11 document at this moment in time in respect of your
an aide-memoire so that we can move on tomorrow with 2 evidence. It's a responsive document and, to a very
coherent questions, of which Dr Wells will have some large extent, it is my understanding that counsel for
notice, because he will have read the document, and it's the government feel that if you were able to have a look
not to be taken as part of an expert report countering 15 at it, it may assist you by giving you some earlier
anything or expanding upon other matters. 16 notice of various issues, to answer their questions
17 MR SHIEH: Mr Chairman, you have heard our concern as to why 17 tomorrow more comprehensively and with greater
the government may wish to rely on it as a file 18 confidence.
document, but if that point is put to one side, if the 19 That seems to me to be a sensible way forward.
20 invitation is for Dr Wells to consider the points made 20 There are, of course, concerns expressed by the counsel
r-mote are, or course, concerns expressed by the counser
21 in the document so that he can perhaps respond more 21 who represent Leightons and therefore who are your
21 in the document so that he can perhaps respond more 21 who represent Leightons and therefore who are your
in the document so that he can perhaps respond more coherently tomorrow, having had one extra night to 2 counsel for purposes of the evidence given here.

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1	greater efficiency tomorrow; okay?	1	Just before we go, gentlemen, I'm sure all of this
2	WITNESS: (Nodded head).	2	is very fascinating and I will do my best to stay up so
3	CHAIRMAN: It's not going in as an expert report as such.	3	that I am at least somewhere in the back pack of the
4	If at a later stage the professor wishes that to go in	4	race, but with the greatest of respect, what we have to
5	as an expert report, separate submissions can be made	5	be careful of I think is getting into great
6	and we can consider it separately, ensuring that you are	6	technicalities. There may be such a thing as a quantum
7	not in some technical or legal way undercut. Do you see	7	computer, I think Google just announced it, but I don't
8	what I mean?	8	pretend to have any ability to understand the interplay
9	WITNESS: Okay.	9	of quarks. What I'm more concerned with is what can
10	CHAIRMAN: So if you get the opportunity today we will make		a quantum computer do, so what I'm interested in here is
11	sure the documentation is available. It will be no more	11	more of the fundamentals of why you say some particular
12	than an aide-memoire for you to have a look at, so you	12	statistics don't assist us and others do, and one of the
13	can say, "Okay, I can see what is being said by the	13	areas, for example, is what I tried to bring out in my
14	professor, the other expert in this matter. Yes, to	14	long rambling way with the engineer, Mr Ng I think it
15	some extent I agree or I don't agree, or at least I know	15	was, yesterday when I was talking about the fact that
16	how I can answer this more efficiently."	16	taking this, how could it be that essentially
17	Anything I have said to you now is not to be taken	17	86 per cent of these could have been put in wrong, when
18	in any way whatsoever as suggesting that you haven't	18	you've got a workman who's been briefed and you've got
19	already dealt with matters efficiently and	19	two engineers who both inspect in different teams.
20	comprehensively. It's just that obviously if you've	20	Either it means that their work is entirely negligent,
21	already got some written document explaining positions	21	which is perhaps questionable, or it means maybe the
22	and you've got some foresight of that, you are in	22	statistics that it's 86 per cent, that needs to be
23	a better position. Okay?	23	looked at.
24	WITNESS: Thank you.	24	So those kind of issues will really assist. Okay?
25	CHAIRMAN: Nobody is going to suggest to you and if they	25	I appreciate you have to go through the more complex
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1	do, they will be shot down by me at any later stage	1	stuff, and I have Prof Hansford to assist me there, but
2	that you haven't answered all the matters contained in	2	I'm just saying that I would be greatly assisted by that
3	that document, because you are receiving it as nothing	3	sort of direction more.
4	more than an aide-memoire to assist you with tomorrow's	4	Good. Anything further? Thank you very much
5	oral examination. Okay?	5	indeed.
6	WITNESS: Thank you.	6	Tomorrow afternoon, 1.30. Thank you.
7	CHAIRMAN: Any objections to having a look at the document	7	(5.22 pm)
8	on that basis?	8	(The hearing adjourned until 1.30 pm the following day)
9	WITNESS: None at all. Thank you.	9	
10	CHAIRMAN: Good.	10	
11	Any problems there, Mr Shieh?	11	
12	MR SHIEH: No, Mr Chairman. Indeed, it is actually what was	12	
13	going to happen because, as I acknowledge frankly, we	13	
14	have actually given the document to him.	14	
15	CHAIRMAN: Okay.	15	
16	MR SHIEH: And obviously, if he has time, he will be	16	
17	considering it.	17	
18	CHAIRMAN: Good.	18	
19	MR SHIEH: As long as, as Mr Chairman very fairly pointed	19	
20	out, no one can later on say, "You have been given	20	
21	a chance to comment and therefore the ball is in your	21	
22	court. If you don't single out a particular paragraph	22	
23	by saying 'I can't comment on it', therefore you are	23	
24	stuck." Nothing of that sort is going to happen.	24	
25	CHAIRMAN: All right. Dr Wells, thank you very much.	25	

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