Page 1		Page 3
Thursday, 24 January 2013	1	MR CHAU TO-YUI (on former affirmation)
		(All answers via interpreter unless otherwise indicated)
		Examination by MR BERESFORD (continued)
		THE CHAIRMAN: Good morning, Mr Chau.
		A. (In English) Good morning.
• •		THE CHAIRMAN: Have you had the opportunity to peruse
		completely the record of interview and your statement
		now?
	9	A. Yes.
	10	THE CHAIRMAN: Are you in a position to indicate whether or
	11	not it needs to be amended, either of them?
said he would look into it. I understand	12	A. No.
THE CHAIRMAN: He gave an explanation on the spot, didn't	13	MR BERESFORD: So are the contents of those documents true,
he, that it was to do with material being loaded onto	14	Mr Chau?
the vessel, other material?	15	A. Correct.
MR BERESFORD: Well, he said, as I recall, that it could be	16	Q. Thank you. Mr Chau, you are currently a ship inspector
due to material that had accumulated.	17	in team 1 of the Maintenance Section, Government Fleet
THE CHAIRMAN: Yes.	18	Division of the Marine Department, and you've held that
MR BERESFORD: I understand that some enquiries have been	19	position since 1993; is that right?
made, and my learned friend Mr Pao can explain what the	20	A. Correct.
result is.	21	Q. You hold a Higher Certificate in Naval Architecture and
		Shipbuilding from the Hong Kong Polytechnic. When was
		that awarded, please?
		A. If I remember correctly, it was in 1983.
was calculated on an observation of the draft mark of	25	Q. Thank you. You joined the Marine Department as
Page 2		• Page 4
the vessel. If it's in calm water, that would be fine.	1	an assistant ship inspector in 1990, and in 1993 you
But if it's slightly choppy, then that observation of	2	became a ship inspector. From 2003 to 2009, you were
the draft mark might be slightly off. So if the Marine	3	posted to the Local Vessels Safety Section; is that
Department surveyor who supervised the experiment said,	4	right?
"Look, that's my observation of the draft mark", then	5	A. Correct.
they would have to record the measurement and base the	6	Q. Your duties in the Local Vessels Safety Section
calculation on that. So that may be an additional	7	included, amongst other things, liaising with
factor that affected the calculations of the	8	shipbuilders or shipowners; vessel inspection; overseas
lightweight.	9	survey; tonnage measurement and valuation of detained
•	10	craft; witnessing inclining experiments; lightship
	11	verifications; and approval of stability calculations?
		A. Correct.
		Q. Now, you've made your witness statement to explain your
•		role as a ship inspector in witnessing the inclining
		experiment of the Lamma IV on 19 July 2005, and the
		checking of Lamma IV's Stability Booklet dated 21 July
· · · ·		2005, which was submitted by Cheoy Lee Shipyards Ltd to the Marine Department.
		A. Correct.
THE CHAIRMAN: Very well.	20	Q. We can see the covering letter from Cheoy Lee to the
	20	Marine Department at marine bundle 4, page 667. This
MR BERESEORD: I see Mr Chau has taken his seat again		$\tau$
MR BERESFORD: I see Mr Chau has taken his seat again, Mr Chairman		refers to the completion of some aluminium frame support
Mr Chairman.	22	refers to the completion of some aluminium frame support works, and it says:
-		refers to the completion of some aluminium frame support works, and it says: " an inclining experiment on the vessel was
	(1000 am) THE CHAIRMAN: Mr Beresford. MR BERESFORD: Mr Chairman, before I move on with the evidence, may I just mention one matter. THE CHAIRMAN: Yes. MR BERESFORD: I had asked Mr Lo if he was able to assist in explaining why there was that difference in the weight between the inspections when they added the ballast, 8,6 tonnes of ballast, and at the same time the weight overall appeared to have increased by 15 tonnes. He said he would look into it. I understand THE CHAIRMAN: He gave an explanation on the spot, didn't he, that it was to do with material being loaded onto the vessel, other material? MR BERESFORD: Well, he said, as I recall, that it could be due to material that had accumulated. THE CHAIRMAN: Yes. MR BERESFORD: I understand that some enquiries have been made, and my learned friend Mr Pao can explain what the result is. MR PAO: Mr Chairman, the information I have received from my client is that the calculation of the draft mark of Page 2 Me vessel. If it's in calm water, that would be fine. But if it's slightly choppy, then that observation of the draft mark might be slightly off. So if the Marine Department surveyor who supervised the experiment said, "Look, that's my observation of the draft mark", then they would have to record the measurement and base the calculation on that. So that may be an additional factor that affected the calculations of the	Thursday, 24 January 20131 $(1000 \text{ am})$ 2THE CHAIRMAN: Mr Beresford.3MR BERESFORD: Mr Chairman, before I move on with the evidence, may I just mention one matter.5THE CHAIRMAN: Yes.6MR BERESFORD: I had asked Mr Lo if he was able to assist in explaining why there was that difference in the weight7explaining why there was that difference in the weight10overall appeared to have increased by 15 tonnes. He said he would look into it. I understand –12THE CHAIRMAN: He gave an explanation on the spot, didn't he, that it was to do with material being loaded onto the vessel, other material?15MR BERESFORD: Well, he said, as I recall, that it could be due to material that had accumulated.17THE CHAIRMAN: Yes.18MR BERESFORD: I understand that some enquiries have been made, and my learned friend Mr Pao can explain what the result is.21MR PAO: Mr Chairman, the information I have received from my client is that the calculation of the lightweight of the ship at that time, during the inclining experiment, was calculated on an observation of the draft mark of22the vessel. If it's in calm water, that would be fine.1But if it's slightly choppy, then that observation of the draft mark night be slightly off. So if the Marine 

	Page 5		Page 7
1	Booklet' for your reference."	1	calculation such as fire safety equipment, life-saving
2	The Stability Booklet begins at page 668.	2	appliances, persons, the inclining mass on deck,
3	A. Correct.	3	et cetera. In particular, I would ask the conductor to
4	Q. We see there a Marine Department stamp marked "seen",	4	show me that there is no bilge water in the underdeck of
5	dated 6 January 2005. Do you recognise the signature or	5	the vessel."
6	initials in that stamp?	6	Is that right?
7	A. No.	7	A. Correct.
8	Q. But is it right that you were assisting Mr Liu Chiu-fai,	8	Q. You say:
9	the surveyor of ships, now senior surveyor of ships, in	9	"Sometimes, when I am onboard, the floor plates in
10	vetting the Stability Booklet at that time?	10	compartments are already lifted up so that I can confirm
11	A. Correct.	11	by looking through the manholes on the main deck that
12	Q. And can you confirm that this is the Stability Booklet	12	there is no bilge water. In [other] cases, it cannot be
13	that you checked?	13	viewed clearly from the main deck so I have to climb
14	A. Correct.	14	down to the underdeck compartments with the conductor to
		15	
15 16	Q. Thank you. You've told us at paragraph 7 in your statement:		verify that." A. Normally, if I couldn't see the bilge, I would go down
		16 17	A. Normally, if I couldn't see the blige, I would go down and use a torch to verify whether there is any bilge
17 10	"Before witnessing an inclining experiment, normally I would look at the General Arrangement plan of the		water.
18		18	
19	vessel concerned to acquaint myself with the basic	19	Q. Thank you. You say:
20	arrangement of the vessel as well as any previous	20	"Apart from bilge water, the oil tank and the water
21	stability booklet."	21	tank have to be checked by sounding pipe to confirm
22	A. If this information were available, I would check it.	22	whether they are empty."
23	Q. You also explained:	23	A. We use the sounding method to measure whether there is
24	" often, due to short notice, we may not be able	24	any water or oil, because it would affect the free
25	to access these plans and booklet in our office before	25	surface, and we need to make amendment.
	Page 6		
	Page 0		• Page 8
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	going to the shipyard In such circumstances, we		Q. Yes. Could I please show you a larger version of the
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	Page 9		Page 11
1 2 3 4 5 6 7 8	<ul><li>Q. Yes. You would, would you not, have had to look into the tank room and into the steering gear compartment in order to determine whether or not there was any bilge water present in those compartments?</li><li>A. Yes.</li><li>Q. We've seen the access opening marked on the General Arrangement. Perhaps I can show you a photograph of that at marine bundle 1, page 162. This is a photograph</li></ul>	1 2 3 4 5 6 7 8	<ul><li>A. From the draft mark reading, we can see the aft draft and the centre draft and also the left and right reading of the bow.</li><li>Q. Are you still talking about page 673, Mr Chau?</li><li>A. Yes.</li><li>Q. But I'm looking at the heading. It says "Status as inclined". You told me that that was during the experiment.</li></ul>
9	produced by the Marine Department, and it's been	9	A. Yes.
10 11 12 13	labelled by the Marine Department. Do you see the labelling "Access opening to the steering compartment"? The next arrow points to the tank room aft bulkhead, and the next arrow points to the port side steering gear.	10 11 12 13	Q. But in your statement, we're on the position before you conduct the experiment, in the preparatory steps. Do you read the draft before you conduct the experiment, as well as during the experiment?
14	A. Yes, I can see them.	14	A. I would first check all the equipment necessary, which
15	Q. Thank you. So we can see from that photograph, can we	15	needs to be placed on board the vessel, and then I would
16	not, that the tank room aft bulkhead is not watertight?	16	check the bilge water. Then after seeing all that,
17	A. From this photo, I can see that it is not watertight.	17	I would slacken the ropes and look at the draft.
18 19	Q. Yes. Do you remember whether you could see that at the time?	18 19	Q. Yes. And that's before the inclining experiment is carried out; is that right?
20	A. I didn't see it.	20	A. Correct.
21	Q. You didn't see it, or you don't remember?	20	Q. So where in this booklet do we find the draft as
22	A. I couldn't remember.	22	measured, if anywhere, before the inclining experiment
23	Q. Okay. You go on to explain in paragraph 9 of your	23	is carried out?
24	witness statement:	24	A. It is in "Draft mark reading".
25	"The mooring ropes of the vessel will be slackened	25	Q. On page 673?
	Page 10		Daga 12
			• Page 12
1		1	A. Yes.
1 2	so that the vessel is floating freely on water in lightship condition."	1 2	
	so that the vessel is floating freely on water in	1 2 3	A. Yes.
2	so that the vessel is floating freely on water in lightship condition." A. Correct. Q. And:	2	<ul><li>A. Yes.</li><li>Q. Even though that says "Status as inclined"?</li></ul>
2 3 4 5	so that the vessel is floating freely on water in lightship condition." A. Correct. Q. And: "Finally, I need to take the reading of the draft	2 3 4 5	<ul><li>A. Yes.</li><li>Q. Even though that says "Status as inclined"?</li><li>A. Correct.</li><li>Q. I see. Then in paragraph 10 of your witness statement, you say:</li></ul>
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1	Page 13		Page 15
1	check whether the bob weight would hit. The purpose of	1	I can measure the M and will get a KM.
2	putting lube oil in the box is to prevent the pendulum	2	MR BERESFORD: Yes. I don't want to get too technical. I'm
3	from swinging at an acute angle.	3	just trying to visualise the angle that you're
4	Q. Thank you. Then you say:	4	measuring. So we have a line from G to M, and when you
5	"An inclining mass is moved in a transverse movement	5	incline the vessel, that will deflect the pendulum?
6	on the deck through a known distance."	6	A. In order to get the GM, we need several data. The first
7	A. This is an important part in the inclining experiment.	7	one is the lightship weight; the second one, the
8	Q. Yes. So in layman's terms, you move a heavy object from	8	inclining mass; and the third one the is the distance
9	one side of the deck to the other and measure the	9	between the port side and the starboard side; and the
10	distance, do you?	10	fourth one is the angle of the deflection.
11	A. We move the object from the left to the right. We call	11	THE CHAIRMAN: And that's what you're being asked about:
12	it moving the object from the port to the starboard, or	12	what is the angle you're measuring? Isn't that a simple
13	from the starboard to the port side.	13	question?
14	Q. Yes. And then you measure the deflection of the		A. When the weight is moved from one side of the vessel to
15	pendulum against a horizontal batten.	15	the other side, the vessel would incline and the angle
16	A. The horizontal batten was in fact put on top of the	16	we measure is the angle of inclination.
17	rectangular box.	17	THE CHAIRMAN: That's from the vertical?
18	Q. Yes. Sorry, Mr Chau, do go on.	18	A. Correct.
19	A. When the weight is moved from the left to the right, it	19	THE CHAIRMAN: Thank you.
20	will form an angle and we would measure the angle to	20	Yes, Mr Beresford.
21	arrive at the GMT.	21	MR BERESFORD: Thank you, Mr Chairman.
22	Q. So let me try and see if I can put this into words.	22	And that is to discover, is it not, the transverse
23	If you have a point G, which I take it is the centre	23	stability of the vessel?
24	of gravity, and a point M, which is a point vertically	24	A. Correct.
25	above the centre of gravity, above the vessel, then when	25	Q. Thank you. And you say in your statement, in the last
	Page 14		• Page 16
1	M is inclined over at an angle, the plumb-line dropping	-	1 10
		1	line of paragraph 10:
2	down from M will form an angle with the line G to M. Is	1 2	Ine of paragraph 10: "There will be different combinations of the
2	down from M will form an angle with the line G to M. Is	2	"There will be different combinations of the
2 3	down from M will form an angle with the line G to M. Is that right? Do you follow me?	2 3	"There will be different combinations of the movement of the inclining mass and it will take a few
2 3 4	<ul><li>down from M will form an angle with the line G to M. Is that right? Do you follow me?</li><li>A. There is a slight difference. In fact, the M was fixed</li></ul>	2 3 4	<ul><li>"There will be different combinations of the movement of the inclining mass and it will take a few hours to complete the whole experiment."</li><li>A. Correct.</li><li>Q. Thank you. We then turn from the general to the</li></ul>
2 3 4 5	<ul><li>down from M will form an angle with the line G to M. Is that right? Do you follow me?</li><li>A. There is a slight difference. In fact, the M was fixed on the top.</li></ul>	2 3 4 5	"There will be different combinations of the movement of the inclining mass and it will take a few hours to complete the whole experiment." A. Correct.
2 3 4 5 6	<ul><li>down from M will form an angle with the line G to M. Is that right? Do you follow me?</li><li>A. There is a slight difference. In fact, the M was fixed on the top.</li><li>Q. Of the mast?</li><li>A. No.</li><li>Q. No. All right. So M is fixed on the top, vertically</li></ul>	2 3 4 5 6	<ul><li>"There will be different combinations of the movement of the inclining mass and it will take a few hours to complete the whole experiment."</li><li>A. Correct.</li><li>Q. Thank you. We then turn from the general to the specific, and you talk about this specific inclining experiment in paragraph 11 of your statement.</li></ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>down from M will form an angle with the line G to M. Is that right? Do you follow me?</li> <li>A. There is a slight difference. In fact, the M was fixed on the top.</li> <li>Q. Of the mast?</li> <li>A. No.</li> <li>Q. No. All right. So M is fixed on the top, vertically above before the ship is inclined, M is vertically above G; is that right?</li> <li>A. G is under it.</li> <li>Q. Yes. Is G the centre of gravity?</li> <li>A. Yes. Vertical.</li> <li>A. (In English) Vertical centre of gravity.</li> <li>Q. Vertical centre of gravity, thank you.</li> <li>A. (Chinese spoken).</li> <li>Q. Just do it in stages, please, Mr Chau.</li> <li>A. Usually, after</li> <li>THE INTERPRETER: Sorry. (Chinese spoken).</li> <li>A. Usually I, together with the conductor</li> <li>THE INTERPRETER: Sorry.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>"There will be different combinations of the movement of the inclining mass and it will take a few hours to complete the whole experiment."</li> <li>A. Correct.</li> <li>Q. Thank you. We then turn from the general to the specific, and you talk about this specific inclining experiment in paragraph 11 of your statement.</li> <li>A. Correct.</li> <li>Q. You tell us you remember that the procedure conducted by you was more or less the same as you have described the general procedure to be.</li> <li>A. Correct.</li> <li>Q. And then you refer to the record at page 848 of marine bundle 4.</li> <li>A. Correct.</li> <li>Q. This is one of the survey reports on the Marine Department's file, is it not?</li> <li>A. Yes, it is a survey record.</li> <li>A. It is an inspection record.</li> <li>Q. You say that it's shown from the record that before</li> </ul>

	Page 17		Page 19
1	room and the steering gear compartment to be raised by	1	A. Yes, correct.
2	10 inches.	2	Q. So that's what you're referring to when you say item 32
3	THE CHAIRMAN: Can you just help me with dates,	3	appears to have been checked on 13 July?
4	Mr Beresford. This inspection record is described as	4	A. Yes.
5	a quadrennial survey taken on 16 June 2005. Are we not	5	THE CHAIRMAN: What it states is that items 32 and 33 had
6	concerned with an inclining experiment that was done on	6	been checked, not 32 and 23.
7	21 July?	7	A. Correct.
8	MR BERESFORD: Yes, Mr Chairman.	8	MR BERESFORD: And you say in your statement that you
9	THE CHAIRMAN: So what's the relevance of this document?	9	remember entering these two compartments to confirm the
10	MR BERESFORD: This document showed the witness that the	10	positions of these lead ballasts?
11	owner had asked for lead ballast to be raised.	11	A. Because the lead ballast was supposed to lift for
12	THE CHAIRMAN: Can you show us where that is?	12	10 inches. So I went down and checked whether there is
13	MR BERESFORD: I believe you're referring to note 32 at the	13	a ballast, and I also did some spot-check on the weight
14	bottom of the page, are you not, Mr Chau?	14	and count the ballast, and these were done with the
15	A. Yes.	15	conductor bringing me down there. After counting the
16	Q. Yes. Thank you. So if I've understood your evidence	16	ballasts, I went up and reviewed and checked whether
17	correctly, Mr Chau, it was apparent from this record	17	there is any discrepancy.
18	that the owner had asked for the ballast to be raised,	18	THE CHAIRMAN: But where did you go down to do this?
19	and so you believe that you had checked the position of	19	A. I don't have a clear recollection, but I followed the
20	the lead ballast first before conducting the inclining	20	conductor.
21	experiment; is that right?	21	THE CHAIRMAN: You've dealt with it in your statement, have
22	A. From this record, I can see that the owner has requested	22	you not, at paragraph 11? The two compartments, you say
23	lifting up the weight for 10 inches, and my colleague	23	there, that were concerned were the tank room and the
24	noted that he had seen that in item 32, dated 13 July.	24	steering gear compartments.
25	THE CHAIRMAN: Sorry, where do we find that?	25	
	Page 18		· Page 20
1	A. Below "some location" of item 33.	1	there is any bilge water, and I had to carry a watch to
2	THE CHAIRMAN: Yes. Read out what you think you can see	2	conduct the check.
3	there.	3	THE CHAIRMAN: Let's just concentrate on the question. Do
4	A. (In English) "item 32 & 23 checked".	4	you confirm that you went into both the steering gear
5	MR BERESFORD: Do you recognise that signature or initial,	5	compartment and the tank room in order to check the
6	Mr Chau?		
7		6	
		6 7	location and then perhaps the weight of the ballast?
8	A. (In English) Yes.	6 7 8	location and then perhaps the weight of the ballast? A. Correct.
8 9		7	location and then perhaps the weight of the ballast?
_	<ul><li>A. (In English) Yes.</li><li>Q. And whose is it, please?</li></ul>	7 8	location and then perhaps the weight of the ballast? A. Correct. THE CHAIRMAN: Thank you. MR BERESFORD: It may be a point of translation, but I think
9	<ul><li>A. (In English) Yes.</li><li>Q. And whose is it, please?</li><li>A. Louk Hon-ying, HY Louk. You can refer to the survey of</li></ul>	7 8 9	location and then perhaps the weight of the ballast? A. Correct. THE CHAIRMAN: Thank you.
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. (In English) Yes.</li> <li>Q. And whose is it, please?</li> <li>A. Louk Hon-ying, HY Louk. You can refer to the survey of ship.</li> <li>Q. So the same HY Louk that has signed the main part of the survey report?</li> <li>A. Yes.</li> <li>MR BERESFORD: I just want to clarify this using the cursor, if I may, Mr Secretary. There's a space for signature, "Surveyor of Ships/Ship Inspector", and above that there is a signature. Yes, where the cursor is pointing now. By that there's a name, "HY Louk". That's what I call the main signature. Do you see that?</li> <li>A. Yes.</li> <li>Q. Then underneath that there's a line going across the page, and underneath that line in the centre there's</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>location and then perhaps the weight of the ballast?</li> <li>A. Correct.</li> <li>THE CHAIRMAN: Thank you.</li> <li>MR BERESFORD: It may be a point of translation, but I think you said you would have looked with a torch, not a watch?</li> <li>THE INTERPRETER: Yes, Mr Beresford, I said a torch.</li> <li>MR BERESFORD: Thank you.</li> <li>A. Yes, a torch.</li> <li>MR BERESFORD: I'm sure you did, but it came out in the transcript as a watch.</li> <li>Now, you've seen the plans. We looked at the plans earlier, and you've seen the photograph. So in order to get from the tank room to the steering gear compartment, or from the steering gear compartment to the tank room, it seems likely that you would have had to have gone through that access opening, doesn't it, Mr Chau?</li> </ul>

	Page 21		Page 2
1	You wouldn't have gone down from the deck into the tank	1	miscalculation in the Stability Booklet?
2	room and then down again from the deck into the steering	2	A. Basically it was not a significant discrepancy.
3	gear compartment?	3	MR BERESFORD: Unless anybody wants me to, I don't propos
4	MR MOK: I think the translation is "you would do that",	4	to go into those in detail.
5	whereas the question is "you wouldn't do that".	5	Mr Chau, did you check the damage stability
6	THE CHAIRMAN: Yes. Thank you for that, Mr Mok.	6	calculations from page 695 of the Stability Booklet?
7	A. If there is a manhole on top, then of course I would	7	A. I had checked the data against the previous one, which
8	have gone down from the manhole.	8	was in 1998.
9	THE CHAIRMAN: No, the point is, having come down through	9	Q. You see it starts at page 695 under the heading
_0	the manhole, clambered down a ladder into one of the	10	"Stability after damage"?
.0	compartments and then finding an access door which	11	A. Correct.
.1	permitted you to go from, say, tank room to steering	12	Q. At page 697, we see the heading "Damage Case 1: After
	room, you wouldn't climb back up to the deck and go down	13	
.3	• • •		Peak damaged". A. Correct.
.4	through another manhole; isn't that the likelihood?	14	
.5	You'd use the access hole.	15	Q. So that's basically a calculation of the position on the
6	A. I don't have a clear recollection of this, but	16	assumption that the steering gear compartment is
.7	usually	17	flooded; is that right?
.8	THE INTERPRETER: Sorry.	18	A. Correct.
9	A. Usually I went down from the main deck to the	19	Q. Then at page 698 at the bottom, going on to pages 699
20	independent compartment.	20	and 670, we see "Damage Case 2: Tank Space damaged".
1	MR BERESFORD: Mr Chau, you say:	21	A. Correct.
2	"After checking the position of the lead ballasts,	22	Q. That, similarly, is a calculation of what the position
3	the procedure of experiment was conducted and I remember	23	would be if the tank compartment were flooded; is that
24	that it took about 2 hours to complete the whole	24	right?
25	experiment including the preparation work [we've just	25	A. Correct.
	Page 22		• Page 2
1	been discussing]."	1	Q. At page 700, we see "Damage Case 3: Engine Room
2	A. Correct.	2	damaged".
3	Q. And then:	3	A. Correct.
4	"After the experiment was completed, Cheoy Lee	4	Q. From page 702, we see "Damage Case 4: Void fr.9-fr.13
5	gave me a photocopy of the draft measurement and reading	5	damaged".
б	of the deflection of the pendulum for record."	6	A. Correct.
7	A. Usually, after that, I would go to the office of the	7	Q. I think if we look at the General Arrangement on
8	shipyard and they would provide me with the data. But	8	page 670, that's what is normally referred to as the
9	I also marked down some reading and checked against the	9	crew space, is it not? You can see the frame numbers on
0	data they provided. After verifying the data, the	10	the profile at the top, Mr Chau. The labels of the
1	shipyard would give me a photocopy.	11	compartment are on the underdeck plan.
2	Q. I see. Then you tell us:	12	If you'd like to look at a larger version of the
3	"Cheoy Lee sent the Stability Booklet to the Marine	13	General Arrangement, I'm sure it can be provided.
.4	Department on 21 September 2005."	14	A. Yes, I can see it.
5	A. Yes.	15	Q. You can see it?
6	Q. "Upon receipt of the Stability Booklet, since this was	16	A. I don't need to refer to the larger version. I am
7	the third stability booklet of Lamma IV [that you knew	17	referring to the report submitted.
8	about], I checked the figures and the calculations	1	Q. So 9-13 is the crew space, isn't it?
		18	A. Yes.
9	therein against the previous stability booklet in 1998."	19	
20	A. Correct.	20	Q. Then from page 703, we can see the heading "Damage
1	Q. And you tell us about a minor discrepancy that you	21	Case 5: Void fr.13-fr.18 damaged".
22	discovered in the lightship weight and vertical centre	22	At page 705, we see "Damage Case 6: Fore Peak
3	of gravity, which you reported to Mr Liu Chiu-fai.	23	damaged", going on to page 706 and page 707.
	A. Yes.	24	Those calculations are calculations for six separate

25

compartments, are they not?

25 Q. Apart from that, you didn't notice any discrepancy or

Page 25		Page 27
1 A. Correct.	1	experiment?
2 Q. They are based on the assumption that each of those six	2	A. Correct.
3 compartments is watertight?	3	Q. When you do that experiment, you also have to check the
4 A. Correct.	4	bilge water condition in the hull?
5 Q. In particular, it is based on the assumption that the	5	A. Correct.
6 bulkhead between the after peak and the tank space is	6	Q. You just told us that one method of doing that is to use
7 watertight, is it not?	7	a sounding pipe.
8 A. According to the plan submitted, there are six	8	A. This sounding pipe method is only used in the oil tank
9 compartments and they should be watertight.	9	and water tank.
10 Q. Including the bulkhead	10	THE CHAIRMAN: Yes, that's what I understood. But bilge
11 MR MOK: I'm sorry. "According to the submitted report",	11	water is checked visually, is it not?
12 not the plan, I think.	12	A. Correct.
13 THE INTERPRETER: "According to the submitted report".	13	MR MOK: And the question I wish to ask you is, in relation
14 MR BERESFORD: Including the bulkhead between the after peak	14	to a newly built vessel, do you normally expect that
15 and the tank room?	15	there would be electricity-generated lighting inside the
16 A. Correct.	16	hull when you check the bilge water condition, or do you
17 THE CHAIRMAN: Have a look at page 670, please, which you	17	normally have to use a torch to check the bilge water
18 drew our attention to earlier, described as the General	18	visually?
19 Arrangement. If you look at the underdeck plan, that is	19	A. Which stage are you referring to?
20 illustrated there, is it not, the six compartments, by	20	Q. At the first stage; that is, the first inclining
21 solid lines being drawn?	21	experiment after the vessel has been built.
22 A. Correct.	22	A. The situation is just the same, because when the
23 MR BERESFORD: It's a convention, is it not, Mr Chau, that	23	experiment was conducted, it was conducted in static
24 the solid line indicates a watertight bulkhead?	24	water and all the engines and lighting were shut off.
25 A. Correct.	25	Usually it was very dark, so we would carry a torch, or
Page 26		• Page 28
1 Q. The watertight bulkhead between the tank room and the	1	the conductor of the shipyard would also bring a torch.
2 steering gear compartment is the bulkhead that you must	2	MR MOK: Thank you.
3 have stepped through when you conducted your experiment,	3	THE CHAIRMAN: Mr Beresford?
4 wasn't it?	4	MR BERESFORD: No further questions, Mr Chairman.
5 A. As I have mentioned before, I don't have a clear	5	THE CHAIRMAN: Thank you, Mr Chau, for coming to assist us
6 recollection of what I did at that time. I am just	6	by giving your evidence, but that evidence is now
7 referring to the plans. And the number of compartments	7	complete and you're free to leave. You may, of course,
8 that the calculation was based according to the report	8	if you wish, remain and listen to the other evidence.
9 they submitted.	9	A. (In English) Thank you.
10 MR BERESFORD: Okay. Thank you, Mr Chau. I have no further	10	(The witness withdrew)
<ul><li>11 questions.</li><li>12 THE CHAIRMAN: Mr Grossman?</li></ul>	11 12	THE CHAIRMAN: Mr Beresford? MR BERESFORD: Mr Chairman, if I may just have a word about
13 MR GROSSMAN: No, thank you, Mr Chairman.	13	the order of witnesses now.
14 MR SUSSEX: Mr Chairman, I have no questions for Mr Chau.	14	THE CHAIRMAN: Yes.
15 MR PAO: No questions, Mr Chairman.	15	MR BERESFORD: The next witness in the list is Dr Cheng
16 THE CHAIRMAN: Mr Mok?	16	Yuk-ki, and he is followed in the list by Mr Tang
17 MR MOK: I have one general question about the lighting	17	Wan-on, the marine manager of Hongkong Electric. After
18 condition inside the hull.	18	that, there is Mr Tam Yun-sing, who is another ship
19 THE CHAIRMAN: Yes.	19	inspector from the Marine Department who dealt with the
20 Examination by MR MOK	20	change in the manning requirement of the Lamma IV's
21 MR MOK: Mr Chau, I have one question for you in relation	21	licence.
22 not to this particular inclining experiment that you	22	THE CHAIRMAN: Yes.
23 participated in, but generally in relation to a newly	23	MR BERESFORD: Then we get to Dr Armstrong.
24 built vessel. Is it correct that in relation to a newly	24	THE CHAIRMAN: Yes.
25 built vessel, you also have to undertake an inclining	25	MR BERESFORD: It would perhaps be most convenient if

Page 29		Page 31
1 Dr Armstrong could commence on Monday morning, if that	1	Q. Is there any amendment that you would like to make?
2 would be acceptable, and perhaps if we can rearrange the	2	A. No.
3 order slightly so that if we deal with Mr Tam next, then	3	Q. So are the contents of this statement true?
4 that would finish with the ship inspectors from the	4	A. Yes, it's true.
5 Marine Department.	5	Q. Thank you. Mr Tam, you tell us that you're a shipping
6 THE CHAIRMAN: Yes.	6	safety officer in the Marine Industrial Safety Section
7 MR BERESFORD: Then I would be in your hands, Mr Chairman,	7	of the Local Vessels Safety Branch, Shipping Division of
8 as to whether Mr Tang Wan-on might just be dealt with	8	the Marine Department; is that right?
9 before we come to Dr Cheng, or	9	A. Some amendment. Now my position is marine industrial
10 THE CHAIRMAN: I think we prefer to hear from Dr Cheng next.	10	safety officer in the Marine Industrial Safety Section.
11 MR BERESFORD: So that would be my proposed order,	11	MS SIT: The witness also said "What I do now is different
12 Mr Chairman.	12	from what I did before".
13 THE CHAIRMAN: Very well. It may or may not be, if that's	13	THE INTERPRETER: Yes, "My position is different from my
14 the schedule you're suggesting, we are able to	14	previous position".
15 accommodate Mr Tang in that batting order, before	15	THE CHAIRMAN: Thank you.
16 Dr Armstrong, if you are, as you've suggested, minded to	16	MR BERESFORD: Yes, we'll come to that in a moment, Mr Tam.
17 begin his evidence on Monday?	17	The Marine Industrial Safety Section is, you have
18 MR BERESFORD: Well, it would have the advantage of getting	18	told us, the enforcing agency for various pieces of
19 Mr Tang's evidence dealt with, and he's obviously	19	legislation. You have identified part V of the Shipping
20 been	20	and Port Control Ordinance and one of its subsidiary
21 THE CHAIRMAN: Yes. Mr Tang deals with a completely	21	regulations; part VIII of the Merchant Shipping (Local
22 different subject	22	Vessels) Ordinance and one of its subsidiary
23 MR BERESFORD: He's coming out of order because he's come	23	regulations; and the Freight Containers (Safety)
24 late.	24	Ordinance and its four subsidiary regulations. Is that
25 THE CHAIRMAN: and frankly can be dealt with at any time.	25	right?
Page 30		• Page 32
1 MR BERESFORD: Yes, it can, Mr Chairman.	1	A. Some amendment. I am only responsible for enforcing the
2 THE CHAIRMAN: We'll take a 20-minute break now then.	2	regulation the Shipping and Port Control Ordinance
3 (11.28 am)	3	and its subsidiary regulation, which is 313X, and one of
4 (A short break)	4	its subsidiary legislations.
5 (11.46 am)	5	MR MOK: He is emphasising that he's only responsible for
6 THE CHAIRMAN: Yes, Mr Beresford.	6	part V of the Ordinance, and only one of the provisions
7 MR BERESFORD: Mr Chairman, the next witness is Mr Tam	7	in the subsidiary regulation.
8 Yun-sing.	8	MR BERESFORD: I'm grateful to my learned friend. In fact
9 MR TAM YUN-SING (swom in Punti)	9	the statement refers to the safety section is the
10 (All answers via interpreter unless otherwise indicated)	10	enforcing agency, but I was passing over that.
11 Examination by MR BERESFORD	11	THE CHAIRMAN: I think we can pass over this whole topic and
10 MD DEDESEODD. Cool manine Mattern Theatern for service		
12 MR BERESFORD: Good morning, Mr Tam. Thank you for coming	12	get to the issue
13 along this morning to assist this Commission with its	12 13	get to the issue MR BERESFORD: Indeed.
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<ul> <li>along this morning to assist this Commission with its</li> <li>Inquiry. I have some questions to ask you on behalf of</li> <li>the Commission.</li> </ul>	13	MR BERESFORD: Indeed. THE CHAIRMAN: which is the change in the manning level, is it not?
<ol> <li>along this morning to assist this Commission with its</li> <li>Inquiry. I have some questions to ask you on behalf of</li> <li>the Commission.</li> <li>Mr Tam, you have made a witness statement dated</li> </ol>	13 14	MR BERESFORD: Indeed. THE CHAIRMAN: which is the change in the manning level, is it not? MR BERESFORD: Yes, Mr Chairman.
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<ul> <li>along this morning to assist this Commission with its</li> <li>Inquiry. I have some questions to ask you on behalf of</li> <li>the Commission.</li> <li>Mr Tam, you have made a witness statement dated</li> <li>23 January 2013 which may be found in our marine</li> <li>bundle 11 at pages 4035 to 4039. Do you have a copy of</li> <li>your statement in front of you?</li> </ul>	13 14 15 16 17	MR BERESFORD: Indeed. THE CHAIRMAN: which is the change in the manning level, is it not? MR BERESFORD: Yes, Mr Chairman. Can we please have a look at the Lamma IV
<ul> <li>along this morning to assist this Commission with its</li> <li>Inquiry. I have some questions to ask you on behalf of</li> <li>the Commission.</li> <li>Mr Tam, you have made a witness statement dated</li> <li>23 January 2013 which may be found in our marine</li> <li>bundle 11 at pages 4035 to 4039. Do you have a copy of</li> <li>your statement in front of you?</li> <li>A. Yes.</li> </ul>	13 14 15 16 17 18	MR BERESFORD: Indeed. THE CHAIRMAN: which is the change in the manning level, is it not? MR BERESFORD: Yes, Mr Chairman. Can we please have a look at the Lamma IV certificate of survey at page 760.
<ul> <li>along this morning to assist this Commission with its</li> <li>Inquiry. I have some questions to ask you on behalf of</li> <li>the Commission.</li> <li>Mr Tam, you have made a witness statement dated</li> <li>23 January 2013 which may be found in our marine</li> <li>bundle 11 at pages 4035 to 4039. Do you have a copy of</li> <li>your statement in front of you?</li> </ul>	13 14 15 16 17 18 19	MR BERESFORD: Indeed. THE CHAIRMAN: which is the change in the manning level, is it not? MR BERESFORD: Yes, Mr Chairman. Can we please have a look at the Lamma IV certificate of survey at page 760. We see there, Mr Tam, the certificate of survey
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<ul> <li>along this morning to assist this Commission with its</li> <li>Inquiry. I have some questions to ask you on behalf of</li> <li>the Commission.</li> <li>Mr Tam, you have made a witness statement dated</li> <li>23 January 2013 which may be found in our marine</li> <li>bundle 11 at pages 4035 to 4039. Do you have a copy of</li> <li>your statement in front of you?</li> <li>A. Yes.</li> <li>Q. Do you recognise your signature at page 4038?</li> <li>A. Yes, it's my signature.</li> </ul>	13 14 15 16 17 18 19 20 21 22	MR BERESFORD: Indeed. THE CHAIRMAN: which is the change in the manning level, is it not? MR BERESFORD: Yes, Mr Chairman. Can we please have a look at the Lamma IV certificate of survey at page 760. We see there, Mr Tam, the certificate of survey valid from 16 July 2007 to 25 July 2008. And we see in the top right that the manning requirement was "2"; do you see that?

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1	2009, and the minimum safe manning of crew is specified	1	THE CHAIRMAN: I'm just putting on the record what it is
2	on this certificate as being "4".	2	that you're asking him to look at, because page
3	A. Correct.	3	references by themselves do not achieve that.
4	Q. You were the officer, were you not, who changed the		MR BERESFORD: Thank you, Mr Chairman.
5	requirement from a crew of two to a crew of four; is	5	COMMISSIONER TANG: Perhaps you can look at page 856. Is
6	that right?	6	that signature yours, Mr Tam?
7	A. According to the record, I am the one who changed the		A. This is my signature, dated 27 October 2009. I can find
8	requirement.	8	on page 855, the page before that, in the column of the
9	THE CHAIRMAN: Which record is that?	9	year 2008 in the periodic survey report, and the date of
10	A. I have stated in my statement that it was according to	10	final survey is recorded as 2 June and the signature of
11	the computer record, but my name did not appear on the	11	the inspector is "YS Tam", which is me.
12	certificate.	12	MR BERESFORD: Does that serial number, certificate of
13	MR MOK: Mr Chairman, in his earlier answer, what he was	13	survey serial No. 128A0801393 correspond to the
14	saying, I believe, is that according to the record, he	14	certificate of survey that we saw at page 775?
15	was the person who was conducting the inspection on that	15	A. The number of the certificate was recorded under my
16	day, so he takes it that he was the person who changed	16	signature.
17	the requirement.	17	Q. Yes.
18	THE CHAIRMAN: Thank you. Do we have this record, is really	18	A. It should correspond to the number on the certificate on
19	what I'm asking?	19	page 775.
20	MR BERESFORD: I don't believe we, do Mr Chairman.	20	THE CHAIRMAN: Read out the number, if you would.
21	THE CHAIRMAN: Mr Mok, where is this record to which he	21	A. "12A080", and then it's not very clear, and then "1393".
22	is	22	THE CHAIRMAN: Yes. And that accords with the number on the
23	MR MOK: I'll take instructions.	23	top right-hand corner of page 775, which is the
24	THE CHAIRMAN: Yes.	24	certificate of survey for the period June 2008 to July
25	What was the nature of this inspection that you were	25	2009?
	Page 34		• Page 36
1	conducting?	1	A. Correct.
2	A. On that day, I was conducting the last inspection of the	2	MR BERESFORD: There's an asterisk by the expiry date that
3	annual survey. I was conducting the final inspection of	3	appears to refer to a note sorry, I'm looking at
4	the annual survey.	4	page 855.
5	THE CHAIRMAN: We have inspection records, do we not,	5	A. Yes, correct.
6	Mr Beresford? Is there one that's relevant to this?	6	Q. That appears to refer to a footnote at the bottom of the
7	MR BERESFORD: I don't believe so, Mr Chairman, but perhaps	7	page.
8	we can have a look at the 2008 record, which is at	8	A. Correct.
9	page 853 of marine bundle 4.	9	Q. Does that footnote relate to fire extinguishers?
10	THE CHAIRMAN: No reference to you on that document, is	10	A. It is related to fire extinguishing system and not fire
11	there?	11	extinguishers.
12	A. There is no reference of me. It is another colleague.	12	-
13	THE CHAIRMAN: Yes.	13	there's a reference to an inspection record number.
14	MR BERESFORD: Would you have completed any part of the		A. I'm not sure where you referring to.
15	document in this file commencing at page 831 and running	15	Q. Above your signature, immediately above your signature
16	through to page 864?	16	there is the date of the final survey, and then above
17	THE CHAIRMAN: So you're inviting the witness to look,	17	that there is the date of the slip survey, and above
18	amongst other things, at the inspection records for the	18	that there's an inspection record number: 025321.
		19	-
19	period from February 1996 through until May 2012?		Q. My question is, does that refer to the inspection record
	period from February 1996 through until May 2012? MR BERESFORD: Yes, Mr Chairman. It's my understanding that	20	Q. My question is, does that feler to the hispection record
19		20 21	at page 853?
19 20	MR BERESFORD: Yes, Mr Chairman. It's my understanding that	21	
19 20 21	MR BERESFORD: Yes, Mr Chairman. It's my understanding that this is one document. It's one file.	21	at page 853?
19 20 21 22	MR BERESFORD: Yes, Mr Chairman. It's my understanding that this is one document. It's one file. THE CHAIRMAN: Yes.	21 22	at page 853? A. Correct.

Page 37	Page 39
1 Q. Thank you. So the upshot, Mr Tam, is that it appears	1 conducted the survey.
2 that you were the person who changed the crew	2 THE CHAIRMAN: Would it normally be representatives of the
3 requirement from two to four on 2 June 2008; is that	3 owner of the vessel?
4 right?	4 A. It is possible, but when the survey was conducted, it
5 A. Correct.	5 was quite chaotic, the people were running around. So
6 Q. But you don't have any memory now, due to the lapse of	6 if there's any change afterwards, then I would inform
7 time, of the activities that you conducted during the	7 one of the representatives on the vessel.
8 final inspection?	8 THE CHAIRMAN: Did you ever alert any of your superior
9 A. I would like to add some supplementary information. As	9 officers about what you'd done?
10 I have mentioned in my statement, I have conducted many	10 A. What are you referring to?
11 surveys on ships and I have also worked in two different	11 THE CHAIRMAN: Doubling the number of minimum safe crew
12 posts. So it is impossible for me to have	12 members on Lamma IV. Did you ever tell them that you'd
13 a recollection of this.	13 found it necessary to do that?
14 THE CHAIRMAN: Did you document the reasons why you changed	14 A. No.
15 the minimum safe crew manning level?	15 THE CHAIRMAN: Did you not think it necessary, so that they
16 A. I didn't make any record.	16 could consider whether or not the minimum safe number of
17 THE CHAIRMAN: Nowhere at all?	17 crew on like vessels should be doubled as well?
18 A. I have reviewed my inspection file, and I didn't see	18 A. As I have mentioned in my statement, this was done in
19 such record. Also, if there is a slight amendment of	19 accordance with the code of practice regarding the
20 the certificate, usually it would not be recorded.	20 amendment of the minimum safe manning requirement was
21 THE CHAIRMAN: You were doubling the safe manning number for	21 done in accordance with our code of practice and
22 the vessel. That's not a "slight amendment", is it?	22 I considered the requirement of the crew independently.
23 A. In fact there were at least two vessels that had the	23 THE CHAIRMAN: Now would you answer the question: did you
24 minimum safe manning requirement changed from two to	24 not think it relevant, so that they could consider
25 four crew. If Mr Chairman would like to review, I could	25 whether or not the manning levels of other like vessels,
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1 provide you with such information. In the same way,	1 that is like Lamma IV, should be increased?
2 such change was not recorded.	2 A. Each survey is different. It depends on the colleague
3 THE CHAIRMAN: I'm not interested in that. But what I am	3 who conducted the survey at the site to decide whether
4 interested in is why you didn't record it, this change.	4 he sees from the drill that there is a necessity to
5 A. Because the change was recorded on the certificate.	5 change the manning requirement.
6 THE CHAIRMAN: What about the reasons for the change? Why	6 THE CHAIRMAN: Did you know that this vessel had been in
7 was that not recorded?	7 service for 12 years at the time of your inspection?
8 A. Sometimes when we note some inaccurate information in	8 A. During the inspection, I would refer to the previous
9 the information, we would make amendments. But usually	9 survey certificate which shows the date of manufacture
10 we wouldn't record the reasons.	10 of the vessel.
11 THE CHAIRMAN: Was a representative of Hongkong Electric	11 THE CHAIRMAN: Did that lead you to know that the vessel had
12 present at the final survey on 2 June 2008?	12 been in service for about 12 years?
13 A. I have no recollection.	13 A. Yes, from the record.
14 THE CHAIRMAN: Do you know Mr Tang Wan-on?	14 THE CHAIRMAN: Did you think it odd that no-one else on
<ul><li>15 A. No.</li><li>16 THE CHAIRMAN: You've never met anyone of that name?</li></ul>	<ul><li>previous inspections had found it necessary to double</li><li>the minimum number of crew for safe manning?</li></ul>
17 A. I have no recollection.	17 A. The new legislation came into effect on 2 January, and
17 A. Thave no reconection. 18 THE CHAIRMAN: Were you ever asked by anyone to give	17 A. The new legislation came into effect on 2 January, and 18 the certificate we issued in the year 2007 was the first
<ul><li>18 THE CHAIRMAN. Were you ever asked by anyone to give</li><li>19 an explanation, reasoning, for why you had doubled</li></ul>	<ul> <li>18 the certificate we issued in the year 2007 was the first</li> <li>19 new certificate we issued. I have referred to the</li> </ul>
20 minimum safe manning levels of Lamma IV?	<ul> <li>previous certificate, which was issued in 2005 and 2006,</li> </ul>
21 A. As I have mentioned in my statement, usually if I have	<ul> <li>21 and the minimum safe manning requirement was not shown</li> </ul>
22 A. As Thave menuoled in my statement, usually in Thave 22 made any change, I would inform the persons at the site	21 and the minimum sale maning requirement was not shown 22 on this certificate; it only showed that the number of
<ul><li>who were present. This is my usual practice.</li><li>THE CHAIRMAN: Who would they be? What category of person?</li><li>A. There is no fixed rule, but it depends on who I met who</li></ul>	<ul> <li>crew members was eight.</li> <li>THE CHAIRMAN: Yes, Mr Beresford.</li> <li>MR BERESFORD: Can we have a look at page 760, which was the</li> </ul>

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1	first document we looked at, please.	1	hand, I am of the opinion that two crew members is not
2	This is the previous certificate, is it not, Mr Tam?	2	enough to handle the situation in case of fire or
3 A	A. This is the certificate issued in 2007.	3	emergency.
4 (	Q. Yes. And this shows the minimum safe manning of crew	4	THE CHAIRMAN: Mr Grossman, can you give me the reference in
5	as "2"?	5	the statement where he says that he couldn't remember
6 A	A. Yes.	б	this?
7 N	MR BERESFORD: Thank you, Mr Tam.	7	MR GROSSMAN: Yes. Paragraph 4.
8	Mr Chairman, I have no further questions for this	8	THE CHAIRMAN: Would you read it out.
9	witness.	9	MR GROSSMAN: "Due to the lapse of time, the vast number of
10 7	THE CHAIRMAN: Mr Grossman?	10	vessels I have inspected over the years and the previous
11 N	MR GROSSMAN: Mr Chairman, I'd like to ask a few questions	11	change of post, I cannot recall purely by memory the
12	about the system that was adopted and also about the	12	<b>C</b> 1
13	fire-fighting matters that are referred to in the	13	, , , , , , , , , , , , , , , , , , , ,
14	statement.	14	e i
	THE CHAIRMAN: Yes, very well.	15	5
	MR GROSSMAN: Thank you.	16	
17	Examination by MR GROSSMAN	17	on 2 June 2008 and recalling the usual practice adopted
	MR GROSSMAN: Mr Tam, I represent Hongkong Electric. There	18	
19	are a few questions I'd like to ask you.	19	5
20	First of all, just to take a bit further from what	20	8
21	the Chairman was asking you, do I understand this: once		THE CHAIRMAN: That was all for my purposes. By all means,
22	you make a decision as to the proper number of people,	22	0
23	the minimum number required of crew, it's something you	23	5 1 5
24 25	decide alone, you don't make any record of it, you don't	24	
25	give any reason for it, and no-one above you is	25	A. I agree.
	Page 42		· Page 44
1	approached about it? Am I right?	1	MR GROSSMAN: Thank you. The Chairman asked you why there
2	A. According to the code of practice, I was required to	2	was no record of the reasons for the change.
3	inspect the fire drill and emergency drill once, and if	3	Mr Chairman, if this needs to be looked at, it's on
4	I I have the right to judge with my professional	4	page 38, line 8.
5	knowledge whether there is enough personnel to handle	5	THE CHAIRMAN: Yes.
6	such situation. And if I decided that the crew members	6	MR GROSSMAN: Your answer was:
7	are not enough to deal with the situation, I have the	7	" [if there is] some inaccurate information in
8	right to make such change.	8	the information, we would make amendments."
9	In the case of Lamma IV, it has two decks and with	9	Do you remember that?
10	a substantial number of passengers, I believe that two		A. As I have said, I said that the amendment was recorded
11	crew members is not enough to handle the fire or	11	on the certificate. Q. Yes. What was the inaccuracy that you amended?
12 12	emergency situations.		MR MOK: I think he was not referring to any inaccuracy in
13 14	Q. You remember that now, do you? Because in your statement, you said you didn't remember why you	13 14	
14 15	increased it to four.		THE CHAIRMAN: Yes, but the answer was non-responsive and
		16	
	MR MOK. He didn't say he remembered it but he says that's	0	
16	MR MOK: He didn't say he remembered it, but he says that's his view	17	IVIK UKUSSIVIAIN. THANK VOLEVITUDAITHAN
16 17	his view.		MR GROSSMAN: Thank you, Mr Chairman. Then let me restate the Chairman's question: why was
16 17 18	his view. THE CHAIRMAN: Yes. Very well.	18	Then let me restate the Chairman's question: why was
16 17 18 19	his view. THE CHAIRMAN: Yes. Very well. MR GROSSMAN: All right. That's your view now, is it?		Then let me restate the Chairman's question: why was there no record made of the reasons for doubling the
16 17 18 19 20	his view. THE CHAIRMAN: Yes. Very well.	18 19 20	Then let me restate the Chairman's question: why was there no record made of the reasons for doubling the manning requirement?
16 17 18 19 20 21	his view. THE CHAIRMAN: Yes. Very well. MR GROSSMAN: All right. That's your view now, is it? A. This is my view in reference to the information recorded on the certificate.	18 19 20	Then let me restate the Chairman's question: why was there no record made of the reasons for doubling the manning requirement? A. Because it is our usual practice not to make such
16 17 18 19 20 21	his view. THE CHAIRMAN: Yes. Very well. MR GROSSMAN: All right. That's your view now, is it? A. This is my view in reference to the information recorded on the certificate. Q. In your statement, you said you couldn't remember why	18 19 20 21	<ul><li>Then let me restate the Chairman's question: why was there no record made of the reasons for doubling the manning requirement?</li><li>A. Because it is our usual practice not to make such record. There were also other cases in which the</li></ul>
16 17 18 19 20 21 22 23	his view. THE CHAIRMAN: Yes. Very well. MR GROSSMAN: All right. That's your view now, is it? A. This is my view in reference to the information recorded on the certificate.	18 19 20 21 22	<ul><li>Then let me restate the Chairman's question: why was there no record made of the reasons for doubling the manning requirement?</li><li>A. Because it is our usual practice not to make such record. There were also other cases in which the manning requirements were also changed from two to four,</li></ul>

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1	colleagues. So this is our usual practice.	1	consult our superior every time we make such judgment,
	THE CHAIRMAN: Really?	2	then it would jeopardise our independence.
	MR GROSSMAN: Surely if the shipowner wants to	3	Q. You're employed by the Marine Department. That doesn't
	A. If necessary, I can produce two certificates which were	4	make you independent. Independent of whom?
5	issued in 2007 and 2008. I have got the copies of them.	5	A. Can we refer to our code of practice first, which is in
	Q. But surely if the shipowner wants to challenge the	6	the statement?
7	reasons for the increase in the manning levels, he's	7	Q. I'm simply not interested in what your code of practice
8	entitled to know the reasons?	8	says.
	A. As I have mentioned in my statement, they have the	9	A. I think I can more clearly express what I mean after
10	reason to know and if they have any objection to what	10	referring to the code of practice.
11	MS SIT: Not "they have the reason to know", but "they would	11	THE CHAIRMAN: Well, if it's necessary, Mr Mok, who appears
12	know the reason". "(Chinese spoken)", that's what he	12	for the Marine Department, will take you to that. But
13	said.	13	Mr Grossman is conducting this questioning, and you're
14 ′	THE INTERPRETER: "They would know the reason and if they	14	to answer his questions.
15	had any objection, they could also raise their		A. Would you please repeat your question?
16	objection."	16	MR GROSSMAN: My question was, of whom are you independent?
17 ]	MR GROSSMAN: I see. And giving them the reasons is all	17	You're a civil servant employed by the Marine
18	done verbally? Nothing in writing?	18	Department. You're not independent of your superiors.
19	A. We don't do this, put that down in writing. We usually	19	A. There might be some misunderstanding. What I mean is
20	tell them verbally. If they found it necessary, they	20	not I'm independent; I just mean that I assess
21	could contact my superior at that time.	21	individually. If you refer to the code of practice, as
22	Q. But your superior wouldn't know the reason, because you	22	I have mentioned in my statement:
23	hadn't told him.	23	"Marine Department will prescribe the minimum safe
24	A. In fact I hadn't finished just now. I would also like	24	manning requirement individually"
25	to add some information.	25	Q. Yes, we see this in paragraph 7 of your statement. I'm
	Page 46		• Page 48
1	In fact, they could either ask my superior, by	1	going to turn to something else now.
2	writing or by phone call at the site or afterwards,	2	Mr Tam, from a fire-fighting or fire safety
3	about the reason. In fact, in my experience, I have	3	perspective, what's the difference between Lamma II and
4	received such phone calls and some of them have been	4	Lamma IV?
5	changed	5	A. According to the record, I was not the one responsible
6 A	A. (In English) Not "I received"; my senior.	6	for the fire drill for Lamma II, but I was responsible
7 T	THE INTERPRETER: Sorry.	7	for the fire drill on Lamma IV. So I have no
8 A	A. My senior had received such phone calls, and some have	8	information to provide in respect of Lamma II.
9	been amended and some not.	9	Q. All right. Take it from me, then, that Lamma II is
10 N	AR GROSSMAN: So sometimes your superior would disagree with	10	almost the same size as Lamma IV, in fact slightly
11	your decision?	11	bigger. If you accept that, what would be the reasons
12 A	A. There is such a chance. It did happen once, I mean,	12	for having a minimum of two on Lamma II, and four on
13	that he didn't agree with my decision.	13	Lamma IV?
14 Ç	Q. Surely if he has the power to overrule you, all the more	14	
15	reason why you should give your decision to him first to	15	decisions in respect of Lamma II, but in accordance with
16	see if he agrees with it or not?	16	the code of practice, such decision was assessed
17 A	A. As I said just now, if there is any change to be made,	17	individually in reference to the fire drill and
18	I would inform them at the site before I issue the	18	emergency drill.
19	certificate.	19	Q. So there are no real standards, are there? Some people
	Q. Inform who?	20	might say, "Well, for this size vessel, just two is the
	A. The persons present at the site.	21	minimum required", some people might say four. There
	2. I'm talking about your superior. You wouldn't inform	22	doesn't appear to be any code, any standard.
23	your superior before you made the decision?	23	A. (Chinese spoken).
	A. Because we all work independently and we make our technical or professional judgment. If we were to	24 25	COMMISSIONER TANG: Sorry, if I can interject here. It probably will help if you look at page 3745, which is

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1 Lamma II's certificate.	1	MR GROSSMAN: My recollection is that Francis Cheng gave
2 A. In fact there are many different situations. For	2	that evidence, but I'll check it.
3 instance, it depends on the sophistication of the crew	3	THE CHAIRMAN: Yes, please do.
4 and also the layout of the vessel. I don't know what is	4	MR GROSSMAN: If I'm wrong I'll check it. I won't take
5 the case with Lamma II, but when I assessed Lamma IV,	5	that point any further.
6 I should have come to the decision that two crew is not	6	THE CHAIRMAN: Very well.
7 enough to handle the fire and emergency drill, and so	7	MR GROSSMAN: Has it been any part of your function since
8 I made such decision.	8	2008 to check the annual fire-fighting capacities of the
9 MR GROSSMAN: Mr Commissioner, you asked a question; I'm not	9	Lamma II or the Lamma IV?
10 sure if that's been answered.	10	A. I don't quite understand your question, but what I mean
11 COMMISSIONER TANG: I just provided some information.	11	is that I performed the final survey, and the fire drill
12 THE CHAIRMAN: Details of the vessel so that the witness can	12	and the emergency drill were only part of the final
13 see proof of what it is you asserted, really.	13	survey.
14 MR GROSSMAN: Yes. Thank you.	14	THE CHAIRMAN: I think all that you're being asked is since
15 So I'm right in saying, therefore, there are no	15	then, June 2008, have you done that on either of the
16 standards; each person decides according to his own	16	vessels, Lamma IV or Lamma II? It's as simple as that.
17 views?	17	A. I have reviewed the file and I note that the fire drill
18 A. The standard is the code of practice. According to the	18	for Lamma IV in 2009 was done by me. As for Lamma II,
19 situation of the fire drill, we have to decide whether	19	I need to refer to the file.
20 there is enough crew to handle the situation, and in the	20	MR GROSSMAN: Well, are you aware that since 2008, the
21 case of emergency such as abandoning the ship, whether	21	annual fire drill on Lamma IV, and for that matter
there is enough crew to handle. I am not in a position	22	Lamma II, has been carried out by three persons only,
23 to comment on the reason why two crew members were	23	and to the satisfaction of the Marine Department?
required for Lamma II, because that was not done by me.	24	THE CHAIRMAN: May I invite you to deal with the one that he
25 Q. Now that you know that the vessels are, to all intents	25	says he was involved in, which is 2009.
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		Page 52
	1	• Page 52
1 and purposes, similar, does it make any sense to you	1	MR GROSSMAN: Very well.
<ol> <li>and purposes, similar, does it make any sense to you</li> <li>then that only two people are required, that somebody</li> </ol>	2	MR GROSSMAN: Very well. THE CHAIRMAN: Because he can then speak to that personally.
<ol> <li>and purposes, similar, does it make any sense to you</li> <li>then that only two people are required, that somebody</li> <li>has said only two people are required, a minimum of two?</li> </ol>	2 3	MR GROSSMAN: Very well. THE CHAIRMAN: Because he can then speak to that personally. MR GROSSMAN: Thank you.
<ol> <li>and purposes, similar, does it make any sense to you</li> <li>then that only two people are required, that somebody</li> <li>has said only two people are required, a minimum of two?</li> <li>THE CHAIRMAN: For Lamma II?</li> </ol>	2 3 4	MR GROSSMAN: Very well. THE CHAIRMAN: Because he can then speak to that personally. MR GROSSMAN: Thank you. In the 2009 fire-fighting demonstration as part of
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	Page 53		Page 55
1	Examination by MR SUSSEX	1	there was no specific stipulation as to the minimum
1 2	MR SUSSEX: Mr Tam, after a shipping safety officer such as	2	manning requirement; is that correct?
	yourself has prescribed the minimum safe manning	3	A. Yes.
3	• •		
4	requirements of any given vessel, does the Marine	4	Q. Thirdly, you refer
5	Department thereafter take any steps to ensure that that	5	THE CHAIRMAN: Before you move on.
6	minimum safe manning requirement is being observed?	6	The requirement was dealt with generally, was it
7	A. Normally this is checked by other sections, such as the	7	not, at item (10):
8	Patrol personnel or the Marine Police. But as for the	8	"That the crew is sufficient for the requirements of the vascal and both the matter and ancience are in
9	actual situation, you have to consult the Harbour Patrol	9	the vessel and both the master and engineer are in
10	Section of the Marine Department.	10	possession of the appropriate certificates of competency
11	Q. The minimum safe manning requirement becomes a condition	11	issued by the Director of Marine."
12	of licence, does it not? It's a licence requirement.	12	So it's dealt with generally, but not specifically.
13	A. Since it is prescribed on the certificate, so they have	13	A. The regulation is stipulated as such.
14	to comply with such requirement.	14	THE CHAIRMAN: Thank you.
15	Q. As far as you know, what is the consequence to	15	MR MOK: Thirdly, you referred to the code of conduct.
16	a shipowner or operator of failing to observe the	16	THE CHAIRMAN: Code of practice?
17	minimum safe manning requirement?	17	MR MOK: Sorry, it's code of practice.
18	A. I have no such information on hand, but you may refer	18	I believe that the provision you wish to refer to is
19	to 548G concerning the survey regulation. I am not sure	19	the one that is set out in paragraph 7 of your witness
20	whether this was stipulated in this document.	20	statement; correct?
21	MR SUSSEX: Thank you, Mr Tam.	21	A. Correct.
22	MR PAO: No questions, Mr Chairman.	22	Q. You have already explained the word "individually" in
23	THE CHAIRMAN: Thank you, Mr Pao.	23	that paragraph.
24	Mr Mok?		A. Correct.
25	MR MOK: Mr Chairman, I have a few questions to follow up on	25	Q. This paragraph also has the words "operational needs":
	Page 54		• Page 56
-	Ma Cassessan's exections		
1	Mr Grossman's questions.	1	" the manning requirements would depend on their
1 2	THE CHAIRMAN: Yes, very well.	1 2	" the manning requirements would depend on their operational needs."
2	THE CHAIRMAN: Yes, very well.	2	operational needs."
2 3	THE CHAIRMAN: Yes, very well. Examination by MR MOK	2 3	operational needs." A. Yes, it is written as such.
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	Page 57		Page 59
1	extinguishing system, I would decide that two members	1	Q. What are you referring to by "remark (1)"?
2	were insufficient to efficiently carry out the said	2	A. Please refer to U-4 of the code of practice.
3	emergency steps."	3	MR MOK: May we refer to bundle 11, tab 29, page 3661.
4	Pausing there. Would it be correct to say that in	4	Can you see remark (1) there?
5	respect of different vessels, there would be different	5	A. Yes.
6	crew members who may have different experiences and	6	Q. Is there any particular point that you wish to draw to
7	skills, so even though two vessels may be alike, the	7	our attention from that?
8	performance of the crew during the drill may be very	8	A. In the second paragraph, in the middle of line 1.
9	different?	9	Q. May I read that to you. It says:
10	THE CHAIRMAN: I think, given that we're already five	10	"The minimum safe manning scales are prescribed for
11	minutes past the hour, that's a matter that may involve	11	practical guidance of owners and coxswains to ensure
12	further exploration and we'll take that after lunch.	12	sufficient crew onboard with appropriate skills and
13	MR MOK: Thank you.	13	experience, having regard to vessel size, speed, power,
14	THE CHAIRMAN: Mr Tam, we're going to take our lunch break	14	duration and nature of voyage or trade area, equipment
15	now and we'll resume at 2.30 this afternoon. So be kind	15	and machinery commonly adopted for different types of
16	enough to be back here so that we can start on time at	16	vessels, for the purpose of maintaining general
17	2.30.	17	surveillance and safe navigation, mooring and unmooring
	A. (In English) Okay. Thank you.	18	operation safety, safe of carriage of cargo during
	THE CHAIRMAN: Thank you.	19	transit, measures on prevention of fire and pollution of
	(1.06 pm)	20	environment and the handling of general emergency
21	(The luncheon adjournment)	21	situation."
	(2.30 pm)	22	The point you wish to make is that that supports the
	THE CHAIRMAN: Mr Tam, good afternoon.	23	point that you earlier made; is that right?
	A. (In English) Good afternoon, sir.	24	A. Just now, the question you asked is whether the
25	THE CHAIRMAN: May I remind you that you continue to testify	25	experience and skill of the crew members would affect
	Page 58		• Page 60
1	according to your original oath.	1	• Page 60 the result, and in fact these factors should also be
1 2	according to your original oath. A. I understand.	1 2	the result, and in fact these factors should also be considered, even though the vessels are alike.
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Page 61		Page 63
1 different vessels are concerned? Assuming that these	1	manning number, and you increase it, for example, from
2 are different crew.	2	two to four, do you explain why it is you're doing that
3 A. I am unable to answer your question. I can only make	3	to the owner's representative or the owner at the time?
4 assessment when I could see the performance on site.	4	A. Yes. I will explain to them that this cannot be handled
5 Q. You were also asked questions concerning the making of	5	by two crew; it has to be handled by four.
6 objection to your decision. You have explained that	6	MR MOK: And if they subsequently, either before or after
7 matter in paragraph 9 of your witness statement, which	7	the issue of the certificate of survey, make
8 has not been read out. Can I read that out to you and	8	an objection or ask for reasons either orally or in
9 ask for your confirmation.	9	writing, would you give them the reason for the change
10 You say in paragraph 9:	10	on that occasion?
11 "If I decided to change the manning requirement	11	A. Sometimes I do, but if they come in and
12 after observing the fire and emergency drills during the	12	MS SIT: I'm sorry, that's not the answer. It's "(Chinese
13 final inspection, my usual practice was to verbally	13	spoken)": "I always do", not "Sometimes I do".
14 inform the parties at the spot (usually they were crew	14	MR MOK: Maybe the witness can answer again so we can get
15 performing the drills, the shipowner or their	15	the full answer.
16 representative) before issuing the certificate of survey	16	THE CHAIRMAN: Yes, if you would.
17 with the requirement amended."		A. Would you please repeat your question.
18 THE CHAIRMAN: Well, Mr Mok, that may not have been read out	18	THE CHAIRMAN: If an objection comes in after you've dealt
19 but that evidence has been led in effect.	19	with the owner or his representative at the time, later
20 MR MOK: Correct, yes. Can I finish this paragraph just for	20	on an objection comes in I think the first question
21 the record?	21	really is this: are you involved in dealing with the
22 THE CHAIRMAN: If you feel it's necessary.	22	owner or his representative directly, first of all?
23 MR MOK: You go on to say:	23	Answer that.
24 "If the operator of a vessel is dissatisfied with		A. If they raise the objection in writing, the section head
25 the change, they can raise objection to my seniors at	25	would appoint a staff to handle the objection, and if he
Page 62		• Page 64
Page 62 1 any stage, whether before or after the certificate of	1	called me directly, I will explain once again. And if
	1 2	
1 any stage, whether before or after the certificate of		called me directly, I will explain once again. And if
<ol> <li>any stage, whether before or after the certificate of</li> <li>survey is issued, and my seniors will handle the</li> <li>objection. If their objection is justified, my senior</li> <li>would review the case and adjust the 'MSM' requirement</li> </ol>	2 3	called me directly, I will explain once again. And if they still object to it, then I will refer the case to my superior. THE CHAIRMAN: So you wouldn't be involved in dealing with
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	Page 65		Page 67
1	THE CHAIRMAN: That's the 2008-2009 one?	1	A. There is such a case.
2	MR BERESFORD: 2007-2008. The one at page 776 is	2	Q. Yes. The certificate of survey is issued in respect of
3	THE CHAIRMAN: I think he wants the one with 2008-2009.	3	a vessel, wouldn't you agree, and not the crew?
4	MR MOK: Correct, yes.		A. It was stipulated in the code of practice that the MSM
5	MR BERESFORD: Very well. My apologies.	5	was to be prescribed in accordance with the performance
6	MR MOK: Mr Tam, can you identify this document as being the	6	of the crew in the fire drill and emergency drill.
7	relevant certificate of survey that you would have with	7	Q. All right, Mr Tam. Perhaps that's a submission of law.
8	you at the time of the 2009 inspection?	8	THE CHAIRMAN: No, it's a perfectly commonsense submission.
9	A. I don't remember whether this is the one, but it should	9	This is not a certificate that's issued for
10	be.	10	a particular crew to be on the vessel; it's for the
11	Q. You note in item (4) that it is stated:	11	vessel itself, is it not?
12	"That the minimum safe manning of crew: 4."	12	A. In fact a lot of information has been available on the
13	A. Yes. Yes, I can see it.	13	file for the issuing of certificate, and when I went
14	Q. If during the drill in 2009 only three crew members were	14	
15	involved, would you have noticed the discrepancy between	15	For instance, when I did the survey, I had to consider
16	that situation and what is stated on this certificate of	16	various factors such as the fire equipment, the adequacy
17	survey?	17	of life-saving equipment, and the minimum manning of
18	A. I have no recollection of the situation at that time.	18	crew, et cetera. This is part of my work.
19	Q. Yes, but what I'm asking you is would you, say, look at	19	THE CHAIRMAN: Did you document who the crew were when you
20	the certificate which you had to see whether or not the	20	performed the test in 2008 and changed the manning level
21	crew members involved matched the minimum requirement on	21	from two to four?
22	the certificate?	22	A. I didn't record who the crew were, but I did check
23	A. During the inspection, the location for the drill is	23	whether they have the coxswain licence and the chief
24	different every time. It could be a fire in the engine	24	engineer licence.
25	room, and I will see how they deal with it. Or I may	25	THE CHAIRMAN: Did you copy them?
	Page 66		• Page 68
1	say the passenger cabin in the main deck is on fire, and	1	A. I didn't make a copy of these.
2	I will see how they deal with it.	2	THE CHAIRMAN: Thank you.
3	THE CHAIRMAN: Mr Tam, the question is very simple.	3	Yes, Mr Beresford.
4	A. (In English) Okay.	4	MR BERESFORD: Thank you, Mr Chairman.
5	THE CHAIRMAN: If the survey says there should be four crew,	5	Mr Tam, you agreed, I think, that if the owner
б	do you notice that there are only three, or not? That's	6	wishes to challenge your decision, then they are
7	the question.	7	entitled to know the reasons?
8	A. There is a chance. There is such a chance.	8	A. Yes.
9	MR MOK: All right. I don't think I wish to take this much	9	Q. So how is the owner to know the reasons if you can't
10	further.	10	remember them?
11	THE CHAIRMAN: I'm not surprised.	11	
12	MR MOK: Thank you.	12	
13	THE CHAIRMAN: Thank you, Mr Mok.	13	1 7 1 1
14	MR BERESFORD: Just two questions, Mr Chairman.	14	5
15	Further examination by MR BERESFORD	15	
16	MR BERESFORD: Mr Tam, you said that the crew's performance	16	
17	during the drill was a relevant factor in deciding	17	THE CHAIRMAN: Can't remember the reasons.
18	whether the manning was sufficient; do you remember	18	MR MOK: I think he can't remember the reason now.
19	that?	19	THE CHAIRMAN: Yes. We don't know when his memory failed
1 .	A. Yes, this is one of the factors, but it is not	20	
20		21	But it wouldn't be a problem if you documented it,
21	a determining factor.		
21 22	a determining factor. Q. Well, you might witness the performance of the day crew	22	would it?
21 22 23	a determining factor. Q. Well, you might witness the performance of the day crew and then if you grant the certificate, the vessel might	22 23	would it? MR BERESFORD: I have no further questions.
21 22	a determining factor. Q. Well, you might witness the performance of the day crew and then if you grant the certificate, the vessel might	22	would it? MR BERESFORD: I have no further questions. THE CHAIRMAN: Thank you.

Page 69	Page 71
1 COMMISSIONER TANG: Mr Tam, I just want to follow up on	1 Mr Beresford?
2 an answer that you gave this morning. This is recorded	2 MR BERESFORD: Sir, my learned leader is going to take over
3 on page 42, and I quote:	3 the next witness.
4 "In the case of Lamma IV, it has two decks and with	4 THE CHAIRMAN: Thank you.
5 a substantial number of passengers, I believe that two	5 MR SHIEH: Mr Chairman, we are now going to call Dr Cheng
6 crew members is not enough to handle the fire or	<ul><li>6 Yuk-ki, one of the two Dr Chengs.</li></ul>
7 emergency situations."	7 THE CHAIRMAN: Thank you very much.
8 I think from what you said this morning, that number	8 DR CHENG YUK-KI (affirmed)
9 is important in terms of handling a ferry or vessel of	9 Examination by MR SHIEH
10 that size. If you look at Lamma IV, it is permitted to	10 MR SHIEH: Dr Cheng, welcome, and thank you for coming here
11 carry 232 persons.	11 to assist the Commission by providing us with your
12 A. (Witness nods).	12 evidence.
13 COMMISSIONER TANG: And Lamma II is permitted to carry 244,	13 Could I ask you to have a look at the expert
14 and they both are double-decked. So would you think	14 evidence bundle 1, page 362. It is a statement given by
15 that the number of two crew members for Lamma II should	15 you. You can see on the third line your name, can you,
16 be reviewed?	16 "Cheng Yuk-ki"?
17 A. I am not the one who did the survey for Lamma II, nor	17 A. Yes.
18 did I witness the fire drill and emergency drill. So	18 Q. It is a statement that you made on 12 December,
19 I am not in a position to answer this question. It	19 consisting of 18 pages. You can see that on the first
20 depends. I need to be at the spot to see how it was	20 line?
21 conducted, and so I am not in a position to comment on	21 A. Yes, correct.
22 what my other colleagues have done. But as far as	22 Q. Can I ask you to look at the last page of the bundle,
23 Lamma IV is concerned, the number of passengers and the	23 page 379. You can recognise your signature at the
24 number of decks is one of the factors that I considered.	24 bottom of that page?
25 THE CHAIRMAN: Thank you, Mr Tam, for testifying before the	25 A. Yes, I recognise. It's signed by me.
Page 70	· Page 72
1 Commission. Your evidence is complete and you are free	1 Q. Right. What I propose to do in relation to your
2 to go. You may, of course, stay and listen to the other	2 evidence, Dr Cheng, is to take you through your report
3 evidence if you wish.	3 in sequence, page by page. I'm not going to read out
4 A. (In English) Thank you, sir.	4 each and every paragraph or each and every line, but
5 (The witness withdrew)	5 I would pause and I would ask you to identify
6 THE CHAIRMAN: Mr Mok, I think we ought to deal with it now.	6 photographs or to elaborate on particular paragraphs
7 The evidence of Mr Tam, of course, dealt with events in	7 which we believe would be of particular assistance to
8 2008 that are now over four years later.	8 the Commission and also to the public. Do you follow
9 MR MOK: Yes.	9 that?
10 THE CHAIRMAN: Or rather, we are now over four years later.	10 A. Okay. I understand.
11 It may be that Mr Tam's approach, idiosyncratic as it	11 Q. Because you have already written out your views, and in
12 appears to be, may be simply individual. But we think	12 the absence of any express qualifications or amendments,
13 the Commission would benefit from having evidence put	13 it is going to be presented as your evidence in this
14 before it as to what the current position is. What	14 Inquiry.
15 we're concerned about is the fact that a change in	15 A. Okay.
16 minimum crewing level appears not "appears".	16 Q. At page 362, you set out your background and
17 According to the witness, it was simply not documented	17 qualifications. You obtained a Bachelor of Science
18 and his superior not informed. This is a matter that is	18 degree in Chemistry and a PhD in the Faculty of Science
19 frankly dysfunctional, and we'd like assistance as to	19 at the University of Hong Kong; that's correct?
20 whether that's a personal practice of his, or, if it was	20 A. Yes.
21 a departmental practice, whether it obtains today.	21 Q. The rest of that paragraph basically sets out the
22 MR MOK: Yes.	training that you have received and the experience that
23 THE CHAIRMAN: So would you address that for us.	23 you have gathered over the years, and also the fact that
24 MR MOK: We will address that.	24 you have given expert evidence in the courts of Hong
25 THE CHAIRMAN: Thank you.	25 Kong.

	Page 73		Page 75
1	A. Correct.	1	Q. So you had experience of, for example, investigating
2	Q. Can you explain to us or tell us in very brief terms the	2	where parts of one vessel could be found in the parts of
3	types of subject matter that you have been involved in	3	the other vessel, how paint could be found, angle of
4	as an expert witness in the courts of Hong Kong?	4	collision, that sort of matter?
5	THE CHAIRMAN: I think what might help the Commission most	5	A. Yes.
6	is your experience in the fields that are allied to what	6	THE CHAIRMAN: Were those cases that went to trial?
7	you've been doing in this report.	7	A. I have prepared a statement, but I did not request to
8	A. Okay.	8	testify at the court.
9	THE CHAIRMAN: For example, examining possible evidence of	9	THE CHAIRMAN: Thank you.
10	collision between different parts of cars, vessels,	10	MR SHIEH: At paragraph 1.4, you mention that you have taken
11	paints, and so on. That kind of thing.	11	a number of photographs. Can I ask you to look at the
12	A. Okay, I understand.	12	bundle at page 382 onwards, up to page 398.
13	I have handled a lot of, numerous, traffic accident	13	Of course I will be taking you through these photos
14	cases which were quite serious, and a lot of fatalities.	14	in greater detail in due course, but you can confirm
15	For that case, I will examine the damage to the	15	that you personally took these photographs?
16	vehicles. From the damage of the vehicles, I will	16	A. Yes, these photographs are taken by me, and this album
17	reconstruct how the accident happened and what is the	17	was prepared by me.
18	configuration on impact, and this thing that I will use	18	Q. Thank you. In fact, Dr Cheng, in the course of your
19	to interpret what I have found in this vessel collision	19	evidence, insofar as there may be parts of the vessels
20	case.	20	which have not been captured by your album, I may have
21	Also, I have experience of collecting physical	21	to refer you to photographs taken by others and ask you
22	evidence from the scene, which I have also done	22	to comment on them from time to time.
23	I have collected some paint sample from two vessels to	23	A. Okay. No problem.
24	establish if they have a contact and which part they are	24	Q. At paragraph 2.1, you describe Sea Smooth. It is
25	contacted to each other. This is what is relevant to	25	divided into three decks: underdeck, main deck and upper
	Page 74		• Page 76
1	me, the experience I need to prepare this report.	1	deck. It will be helpful for you to help us identify
2	THE CHAIRMAN: Thank you.	2	the various decks by reference to the photos.
3	MR SHIEH: Thank you.	3	Can we have page 382 on the screen.
4			
	Could I ask you to turn over to page 362.	4	A. Yes.
5	Could I ask you to turn over to page 362. Paragraph 1.1 of your report basically sets out the		A. Yes.
5 6	Paragraph 1.1 of your report basically sets out the	4	<ul><li>A. Yes.</li><li>Q. The underdeck could I have the cursor pointing at the</li></ul>
		4 5	<ul><li>A. Yes.</li><li>Q. The underdeck could I have the cursor pointing at the bit yes, here.</li></ul>
6	Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with.	4 5 6	<ul><li>A. Yes.</li><li>Q. The underdeck could I have the cursor pointing at the</li></ul>
6 7	Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with. Paragraph 1.2 sets out the details of the various	4 5 6 7	<ul><li>A. Yes.</li><li>Q. The underdeck could I have the cursor pointing at the bit yes, here.</li><li>Would that correspond to what you would call the underdeck?</li></ul>
6 7 8	Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with.	4 5 6 7 8	<ul><li>A. Yes.</li><li>Q. The underdeck could I have the cursor pointing at the bit yes, here.</li><li>Would that correspond to what you would call the</li></ul>
6 7 8 9	Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with. Paragraph 1.2 sets out the details of the various visits that you made to the two vessels; that's correct?	4 5 6 7 8 9	<ul><li>A. Yes.</li><li>Q. The underdeck could I have the cursor pointing at the bit yes, here.</li><li>Would that correspond to what you would call the underdeck?</li><li>A. Correct.</li></ul>
6 7 8 9 10	Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with. Paragraph 1.2 sets out the details of the various visits that you made to the two vessels; that's correct? A. Yes.	4 5 7 8 9 10	<ul> <li>A. Yes.</li> <li>Q. The underdeck could I have the cursor pointing at the bit yes, here.</li> <li>Would that correspond to what you would call the underdeck?</li> <li>A. Correct.</li> <li>Q. Basically as we will come to it in due course, the</li> </ul>
6 7 8 9 10 11	<ul> <li>Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with.</li> <li>Paragraph 1.2 sets out the details of the various visits that you made to the two vessels; that's correct?</li> <li>A. Yes.</li> <li>Q. The reference to "Government Dockyard" which we can see</li> </ul>	4 5 7 8 9 10 11	<ul> <li>A. Yes.</li> <li>Q. The underdeck could I have the cursor pointing at the bit yes, here.</li> <li>Would that correspond to what you would call the underdeck?</li> <li>A. Correct.</li> <li>Q. Basically as we will come to it in due course, the underdeck was divided into two hulls, port and</li> </ul>
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6 7 8 9 10 11 12 13 14 15	<ul> <li>Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with.</li> <li>Paragraph 1.2 sets out the details of the various visits that you made to the two vessels; that's correct?</li> <li>A. Yes.</li> <li>Q. The reference to "Government Dockyard" which we can see in relation to Lamma IV, that's the government dockyard at Stonecutters Island; that's correct?</li> <li>A. Yes.</li> <li>Q. At paragraph 1.3, you set out the purpose of your</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A. Yes.</li> <li>Q. The underdeck could I have the cursor pointing at the bit yes, here. Would that correspond to what you would call the underdeck?</li> <li>A. Correct.</li> <li>Q. Basically as we will come to it in due course, the underdeck was divided into two hulls, port and starboard?</li> <li>A. Yes.</li> <li>THE CHAIRMAN: I think the lower photograph perhaps shows that more graphically, if we can scroll down.</li> </ul>
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6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Paragraph 1.1 of your report basically sets out the background to the accident, which I won't trouble you with.</li> <li>Paragraph 1.2 sets out the details of the various visits that you made to the two vessels; that's correct?</li> <li>A. Yes.</li> <li>Q. The reference to "Government Dockyard" which we can see in relation to Lamma IV, that's the government dockyard at Stonecutters Island; that's correct?</li> <li>A. Yes.</li> <li>Q. At paragraph 1.3, you set out the purpose of your inspection and examination of the two vessels?</li> <li>A. Correct.</li> </ul>	4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. Yes.</li> <li>Q. The underdeck could I have the cursor pointing at the bit yes, here. Would that correspond to what you would call the underdeck?</li> <li>A. Correct.</li> <li>Q. Basically as we will come to it in due course, the underdeck was divided into two hulls, port and starboard?</li> <li>A. Yes.</li> <li>THE CHAIRMAN: I think the lower photograph perhaps shows that more graphically, if we can scroll down.</li> <li>MR SHIEH: Yes. The port and starboard hull, that's what you would refer to as the underdeck?</li> </ul>
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Page 77	Page 79
<ul> <li>Page 77</li> <li>1 A. Yes, the wheelhouse is situated in the front of the</li> <li>boat, in front of the upper-deck cabin.</li> <li>3 Q. Yes, it's part of the upper deck but it's in the front</li> <li>of the upper deck?</li> <li>5 A. Yes.</li> <li>6 Q. And the deck right below the upper deck is what you</li> <li>could call the main deck?</li> <li>8 A. Correct.</li> <li>9 Q. Where the cursor is pointing now; that's correct?</li> <li>10 A. Yes.</li> <li>11 Q. Behind the upper deck cabin was what you would call the</li> <li>12 weather deck?</li> <li>13 A. Yes.</li> </ul>	<ul> <li>Page 79</li> <li>1 Q. At paragraph 2.3, you refer to contact damage to Sea</li> <li>Smooth, which was confined to the port side,</li> <li>specifically the port hull and the port side of the</li> <li>foredeck. You refer to the bow of the port hull being</li> <li>badly damaged and the planking missing, leaving a breach</li> <li>with a maximum extent of about 2.4 metres high,</li> <li>4.3 metres long by 1.5 metres wide.</li> <li>Could we have photograph 4 at page 383.</li> <li>That is a close-up of what you have described as</li> <li>"the breach"; that's correct?</li> <li>11 A. Correct.</li> <li>Q. The breach is basically what one might colloquially call</li> <li>the wound, the part where it's cut off, the open area?</li> </ul>
<ul> <li>14 Q. It's on the same level as the upper deck?</li> <li>15 A. Correct.</li> <li>16 Q. In fact it's part of the upper deck, except that it's</li> <li>17 not a cabin, it's open-air; that's correct?</li> <li>18 A. Yes, it is open.</li> <li>19 Q. Thank you. And you refer to the number of crew and</li> <li>20 passengers that Sea Smooth could carry, at the end of</li> <li>21 that paragraph.</li> <li>22 A. Mm'hm.</li> <li>23 Q. At paragraph 2.2, you describe the composition of the</li> </ul>	<ul> <li>14 A. Yes.</li> <li>15 Q. You mentioned some measurements. 2.4 metres high. That</li> <li>would be where the cursor is now moving, the vertical.</li> <li>17 Vertically measured, that's 2.4 metres; correct?</li> <li>18 A. Correct.</li> <li>19 Q. Horizontally measured, it's 1.5 metres?</li> <li>20 A. Yes, this is the one. 1.5.</li> <li>21 Q. Yes. You said:</li> <li>"The structural members reinforcing the fibreboard</li> <li>23 planking near the breach were broken and bending</li> </ul>
24       hulls of Sea Smooth. They are composed mainly of strong         25       fibreboard; correct?         Page 78	24       inwards."         25       Could I have the photograph again, and perhaps you         Page 80
<ul> <li>A. Correct.</li> <li>Q. At photo 3, you describe the pointed protrusion at the</li> <li>corner of the bow of the starboard hull.</li> <li>Can we have page 383. Yes.</li> <li>The red line or the red pointer, does that point to</li> <li>that protrusion that you refer to?</li> <li>A. Yes. "The L-shaped metal plating", the protrusion is</li> <li>near the bottom.</li> <li>Q. Yes. Could we have the cursor pointing down.</li> <li>A. Lower.</li> <li>Q. Down, down, down. Yes.</li> <li>A. Lower. To the right. To the right more.</li> <li>Q. That is the protrusion, right?</li> <li>A. Yes.</li> <li>Q. You further refer to the paintwork of the hulls. We can</li> <li>see near the numbers 1.4, there is a line. Basically</li> <li>above that line it's blue and below that line it's</li> <li>brown; that's correct?</li> <li>A. Yes.</li> <li>Q. And that is where the waterline would be</li> <li>A. Yes.</li> </ul>	<ul> <li>can identify for us where the broken members were which</li> <li>bent inwards.</li> <li>We can find on the left-hand side, you can see two</li> <li>red lines saying "Structural members"?</li> <li>A. Yes.</li> <li>Q. Those are the structural members that you refer to?</li> <li>A. Correct, and you can see from the photograph, it's bent</li> <li>inward.</li> <li>Q. Yes. And then you say:</li> <li>"Scratches with white smears were found on the bow</li> <li>of the middle hull, the open section between the two</li> <li>hulls above the water."</li> <li>Then there is a reference to photo 2, and we can go</li> <li>back to page 382. The photograph at the bottom.</li> <li>The red line identified "The middle hull", and there</li> <li>is a red line also which identified "The scratches with</li> <li>white smears". Those are the white smears that you</li> <li>mention in that paragraph; that's correct?</li> <li>A. Correct.</li> <li>Q. "[They] started from the top of the breach on the</li> <li>starboard side of the port hull, travelled upwards and</li> <li>aft, crossed to the middle hull and ended at the bow</li> </ul>
<ul><li>24 Q when the vessel was in water?</li><li>25 A. Yes.</li></ul>	<ul><li>travelling in a single direction."</li><li>That's not entirely visible in this photograph, but</li></ul>

	Page 81		Page 83
1	that's what you had observed; that's correct?	1	with white and red paint smears were found on the
2	A. Correct.	2	leading edge of the foredeck at the bow; the direction
3	Q. At paragraph 2.4, you refer to the foredeck of Sea	3	of the scratches ran aft towards the port side."
4	Smooth.	4	You will have to assist me here. If we look at the
5	Could we have photo 5, which is at page 384.	5	photograph at page 384, the photograph itself does not
6	In your report, you mentioned that there was	6	actually identify where the debris with foreign white,
7	a missing triangular side panel. We can see in this	7	blue and red paint fragments could be seen. Were they
8	photograph that there is a notional triangle in red. We	8	such that it could not be captured by your photo?
9	can see that?	9	We can see the debris, the panel of Sea Smooth
10	A. Yes.	10	A. Yes.
11	Q. That is where the missing side panel was supposed to be;	11	Q. But the foreign white, blue and red paint fragments
12	correct?	12	which were scattered
13	A. Correct.	13	A. From this photograph, I think on the left side of the
14	Q. That was really by comparison with what you could see on	14	left corner, the left bottom corner, the arrow now
15	the starboard side?	15	indicates just cover that. That one should be the
16	A. Exactly.	16	blue fragment.
17	Q. If I could maybe jump ahead. At page 396, at the top of	17	Q. Yes.
18	that page, this was actually on the weather deck of	18	A. And we can see a lot of white fragments.
19	Lamma IV. There is this piece of fibreboard fragment	19	Q. Yes. Close up, maybe.
20	that was found when you inspected the Lamma IV.	20	A. Yes, close. But for the red fragment yes, here, just
21	A. Yes.	21	on the left bottom corner, we can see the blue.
22	Q. We'll come to that later, but you have come to the view	22	
23	that this is actually the missing side panel that one	23	A. Near the handrail, there was a red fragment between the
24	would suppose to find on that photograph at page 384,	24	two rails. Yes.
25	the missing side panel?	25	Q. Right.
	Page 82		· Page 84
1	A. Yes, correct, because they agree in size.	1	A. This one.
2	Q. And I assume also in colour?	2	Q. Right, okay.
3	A. Yes.	3	A. Because this photograph just mainly to illustrate the
4	Q. And you compared it with the one that was still there at	4	damage to the side panel, so it is not clear.
5	the Sea Smooth starboard side?	5	Q. Yes, thank you. Because there wasn't a particular arrow
6	A. Yes.	6	pointing to a particular fragment. That is why I wanted
7	Q. Thank you. At paragraph 2.4 of your report, you also	7	to you to assist us in pointing that out. Thank you.
8	mentioned that there was a dislodgment of the handrail.	8	When you say "the direction of the scratches ran aft
9	You said there was a missing triangular side panel, and	9	towards the port side", could we see that?
	dislodgment of the handrail. Do you see that? If we	10	A. No. I didn't show this photo.
10	e .		
10 11	look at page 384, photo 5, we can see the handrail	11	Q. Right. The scratches would be where? Because you say
10 11 12	look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.	12	"scratches with white and red paint smears were found on
10 11 12 13	look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck. A. Yes.	12 13	"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".
10 11 12 13 14	<ul><li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li><li>A. Yes.</li><li>Q. Again, were you able to form the view that it was</li></ul>	12 13 14	"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow". A. Yes.
10 11 12 13 14 15	<ul><li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li><li>A. Yes.</li><li>Q. Again, were you able to form the view that it was dislocated from the port bow because of an equivalent</li></ul>	12 13 14 15	<ul><li>"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".</li><li>A. Yes.</li><li>Q. That would not be captured by a photograph taken at this</li></ul>
10 11 12 13 14 15 16	<ul><li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li><li>A. Yes.</li><li>Q. Again, were you able to form the view that it was dislocated from the port bow because of an equivalent that you saw on the starboard bow?</li></ul>	12 13 14 15 16	<ul><li>"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".</li><li>A. Yes.</li><li>Q. That would not be captured by a photograph taken at this angle; right?</li></ul>
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10 11 12 13 14 15 16 17 18 19 20	<ul> <li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li> <li>A. Yes.</li> <li>Q. Again, were you able to form the view that it was dislocated from the port bow because of an equivalent that you saw on the starboard bow?</li> <li>A. Yes.</li> <li>Q. Thank you. Could we now go back to paragraph 2.4 of your report at page 364. You gave the measurement of the missing panel. We</li> </ul>	12 13 14 15 16 17 18 19 20	<ul> <li>"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".</li> <li>A. Yes.</li> <li>Q. That would not be captured by a photograph taken at this angle; right?</li> <li>A. Yes.</li> <li>Q. Perhaps we could try the next paragraph, 2.5: <ul> <li>"Behind the foredeck, about 3.5 metres from the bow, was the front panel of the main deck cabin. Fresh</li> </ul> </li> </ul>
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10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li> <li>A. Yes.</li> <li>Q. Again, were you able to form the view that it was dislocated from the port bow because of an equivalent that you saw on the starboard bow?</li> <li>A. Yes.</li> <li>Q. Thank you. Could we now go back to paragraph 2.4 of your report at page 364.</li> <li>You gave the measurement of the missing panel. We have seen graphically what it actually looked like on Lamma IV, so I'll skip over that.</li> </ul>	12 13 14 15 16 17 18 19 20 21 22	<ul> <li>"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".</li> <li>A. Yes.</li> <li>Q. That would not be captured by a photograph taken at this angle; right?</li> <li>A. Yes.</li> <li>Q. Perhaps we could try the next paragraph, 2.5: <ul> <li>"Behind the foredeck, about 3.5 metres from the bow, was the front panel of the main deck cabin. Fresh horizontal scratches with blue smears were found on the front panel at a height of about 0.9 metres from the</li> </ul> </li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li> <li>A. Yes.</li> <li>Q. Again, were you able to form the view that it was dislocated from the port bow because of an equivalent that you saw on the starboard bow?</li> <li>A. Yes.</li> <li>Q. Thank you. Could we now go back to paragraph 2.4 of your report at page 364. You gave the measurement of the missing panel. We have seen graphically what it actually looked like on Lamma IV, so I'll skip over that. "Debris, including the panel of Sea Smooth and some</li> </ul>	12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".</li> <li>A. Yes.</li> <li>Q. That would not be captured by a photograph taken at this angle; right?</li> <li>A. Yes.</li> <li>Q. Perhaps we could try the next paragraph, 2.5: <ul> <li>"Behind the foredeck, about 3.5 metres from the bow, was the front panel of the main deck cabin. Fresh horizontal scratches with blue smears were found on the front panel at a height of about 0.9 metres from the deck and about 1.3 metres from the port side end (see</li> </ul> </li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>look at page 384, photo 5, we can see the handrail having been dislocated and being on the foredeck.</li> <li>A. Yes.</li> <li>Q. Again, were you able to form the view that it was dislocated from the port bow because of an equivalent that you saw on the starboard bow?</li> <li>A. Yes.</li> <li>Q. Thank you. Could we now go back to paragraph 2.4 of your report at page 364.</li> <li>You gave the measurement of the missing panel. We have seen graphically what it actually looked like on Lamma IV, so I'll skip over that.</li> </ul>	12 13 14 15 16 17 18 19 20 21 22	<ul> <li>"scratches with white and red paint smears were found on the leading edge of the foredeck at the bow".</li> <li>A. Yes.</li> <li>Q. That would not be captured by a photograph taken at this angle; right?</li> <li>A. Yes.</li> <li>Q. Perhaps we could try the next paragraph, 2.5: <ul> <li>"Behind the foredeck, about 3.5 metres from the bow, was the front panel of the main deck cabin. Fresh horizontal scratches with blue smears were found on the front panel at a height of about 0.9 metres from the</li> </ul> </li> </ul>

	Page 85		Page 87
1	Perhaps we should visualise where this part	1	the cross-wrench that one would need to open the
2	corresponds to by look at the port view of Sea Smooth.	2	manhole?
3	Could we have page 382. The top photo.	3	A. Yes.
4	Which part of Sea Smooth did that photo, photo 6,	4	Q. In your report, you mention that a crew member took less
5	correspond to?	5	than half a minute to open one manhole; correct?
6	A. Near the bow. The foredeck.	6	A. Correct.
7	Q. Up? Yes.	7	Q. I'm in the middle of paragraph 2.7. Compartments 1 to 3
8	A. Yes.	8	were void spaces; compartments 4 and 5 were tank and
9	Q. That is the foredeck?	9	engine. They all were divided by watertight bulkheads;
10	A. Yes, here is the foredeck.	10	correct?
11	Q. Yes.	11	A. Correct.
12	A. And the front panel of the passenger cabin should be the	12	Q. Compartments 6 and 7 were not examined because they were
13	vertical broken edge. Here. This part. Correct.	13	near the stern, and there's no damage to the stern so
14	Q. Right. Okay.	14	you didn't inspect them?
15	So we turn to page 384. I take it that this would	15	A. Yes.
16	be taken actually on the foredeck?	16	Q. Paragraph 2.8, you refer to the damage. First of all,
17	A. Correct.	17	you mention damage to compartment 1 of the port hull,
18	Q. And the camera would be facing the port side?	18	being badly damaged and almost lost, and that is the
19	A. You can see from the photograph on the left bottom	19	photograph we see at page 386, top of that page. That's
20	corner, that is the door to the main deck cabin.	20	correct?
21	Q. Yes. The lens of the camera was facing port side?	21	A. Correct.
22	A. Facing port side to the stern, yes, correct.	22	Q. We have seen a close-up at page 383, bottom.
23	Q. That's right.	23	Could we see that again.
24 25	Here you say: "The blue smears (red circled) on the outer front	24 25	That is where compartment 1 used to be. A. Situated, yes.
25	The blue sinch's (red chered) on the bluer none	25	A. Shuaca, yes.
	Page 86		• Page 88
1	panel of the main deck cabin of Sea Smooth at the port	1	Q. In fact in this photograph, you refer to "Damaged
2	side."	2	watertight bulkhead". You can see that?
3	Yes, that is what you refer to, the blue smears;	3	A. Yes, I can.
4	correct?	4	Q. That was the watertight bulkhead on Sea Smooth which
5	A. Correct.	5	separated compartment 1 and compartment 2; correct?
6	Q. At a height of about 0.9 metres from the deck and	6	A. Correct.
7 8	1.3 metres from the port side end. The port side end is where you find the damage?	7	Q. But because this bulkhead was damaged, water actually flooded compartment 2 as well?
0 9	A. Yes.	9	A. Yes.
9 10	Q. Thank you. Paragraph 2.6. Could we go back to	10	Q. Which you mentioned in your report at paragraph 2.8.
11	page 365:	11	You can see:
12	"The damage to the main deck cabin was confined to	12	"The bulkhead between compartments 1 and 2 was also
13	the corner at the port bow, including minor deformation	13	damaged, causing flooding in compartment 2"
14	and cracking of the fibreboard panel. No damage to the	14	Do you see that?
15	upper deck cabin was noted. All the fixtures	15	A. Yes.
16	remained in their respective positions."	16	Q. You went on to say:
17	Then at paragraph 2.7, we come to the underdeck.	17	"Compartments 3 and 4 of the port hull showed no
18	You refer to the two hulls, divided into seven	18	visible damage but some water estimated roughly 10-20 cm
19	compartments. You refer to the first five compartments	19	deep was found in the bilges. No damage and water
20	being accessible through manholes inside the main deck	20	ingress were noted in compartment 5 of the port hull."
21	cabin.	21	Can I ask you this. If these compartments were
22	Could we have photo 7 at page 385.	22	supposed to be watertight, where would the bilge water
23	So those are the manholes and manhole lids; correct?	23	come from in compartments 3 and 4?
24	A. Correct.	24	<ul><li>A. I don't know.</li><li>Q. Paragraph 2.9, you refer to the wheelhouse, but because</li></ul>
25	Q. At the bottom of that page, page 385, photo 8, that's	25	

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1	nothing really happened to the wheelhouse, it wasn't	1	A. Correct.
2	damaged, so it didn't really feature much in your	2	Q. The weather deck is actually on the same level as the
3	investigation; correct?	3	upper deck, but it's open-air; correct?
4	A. Yes.	4	A. Correct.
5	Q. We can skip over that.	5	Q. We have the main deck in the middle, and then there is
6	Paragraph 2.10 over the page, at page 366. At the	6	the underdeck; yes?
7	time of your inspection, the two side lights were	7	A. Yes.
8	working properly; correct?	8	Q. At the bottom of this page, you said:
9	A. Mm'hm.	9	"According to the deck plan, the total passenger
10	Q. In the next section, you performed the exercise of	10	capacity was 224, of which 146 seats were on the main
11	setting out and calculating drafts measured at various	11	deck cabin, 64 seats on the upper deck cabin, and
12	points on the vessel	12	14 seats on the weather-deck."
13	A. Yes.	13	You mentioned this thing called "the deck plan". Is
14	Q and with various loadings.	14	it a document who showed this document to you?
15	THE CHAIRMAN: When you say that you checked or had the	15	A. Police.
16	lights turned on and you saw the green and red side	16	Q. The police?
17	lights, what was the date of that inspection?	17	A. Marine Police.
18	A. It just confirms that the light can work properly.	18	Q. Do you remember what it looked like? Was it a plan with
19	THE CHAIRMAN: I follow that, but what was the date? When	19	rows of chairs, or was it a document which simply sets
	did you do that?		out the number of seats?
20		20	
21	A. The date	21	A. Just a paper that we can find inside the cabin that
22	THE CHAIRMAN: I see you examined Sea Smooth on two	22	showed the two decks, the upper deck and the main deck,
23	different occasions.	23	with the seats.
24	A. This was done on 3 October.	24	Q. So it's a piece of paper with drawings as to how various
25	THE CHAIRMAN: Thank you.	25	seats are actually laid out?
	Page 90		· Page 9
1	MR SHIEH: You could remember that because that was the sort	1	A. Yes, correct.
2	of thing that you naturally would ask for?	2	Q. Right.
3	A. Yes.	3	A. And also this figure, I also find it on Lamma IV on each
4	Q. Is that the reason why you could remember that?	4	cabin which have printing on the side panel. I can just
5	A. Because this is what I have done on the first day of	5	read it out, how many passenger over there, and I make
6	inspection. I just turned to the page, to see which day	6	the record in my own document.
7	is the first day.	7	Q. Right. Thank you. But I don't seem to be able to find
8	Q. Thank you.	8	a document resembling a plan with various rows of chairs
9	I was asked to clarify the heading of the table,	9	set out. Apart from the General Arrangement, but I'm
10	because while I could I think on the left-hand side	10	not sure whether that's
11	column, it actually says "load weight".	11	THE CHAIRMAN: Were there not photographs taken of the
12	A. Yes.	12	layout of the vessel from notices that were on the
13	Q. But "load weight" doesn't actually describe that	13	board? Are there not police photographs of that?
14	particular column, but "load weight" describes that	14	
	row being -	15	ascertain what is the piece of paper that this
15		16	witness
			···
16	A. The row.	1	THE CHAIRMAN: Is this something that was affixed to one of
16 17	<ul><li>A. The row.</li><li>Q only two types of load weight: one is nil, the other</li></ul>	17	THE CHAIRMAN: Is this something that was affixed to one of the walls in the vessel itself Lamma IV?
16 17 18	<ul><li>A. The row.</li><li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li></ul>	17 18	the walls in the vessel itself, Lamma IV?
16 17 18 19	<ul><li>A. The row.</li><li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li><li>A. Correct.</li></ul>	17 18 19	the walls in the vessel itself, Lamma IV? A. This is some printing, just on the wall.
16 17 18 19 20	<ul><li>A. The row.</li><li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li><li>A. Correct.</li><li>Q. Thank you. Then we move on to examination of Lamma IV.</li></ul>	17 18 19 20	the walls in the vessel itself, Lamma IV? A. This is some printing, just on the wall. THE CHAIRMAN: On the wall of the vessel?
16 17 18 19 20 21	<ul> <li>A. The row.</li> <li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li> <li>A. Correct.</li> <li>Q. Thank you. Then we move on to examination of Lamma IV. Could we have the photograph at page 386. The</li> </ul>	17 18 19 20 21	<ul><li>the walls in the vessel itself, Lamma IV?</li><li>A. This is some printing, just on the wall.</li><li>THE CHAIRMAN: On the wall of the vessel?</li><li>A. Yes, on the wall of the vessel. And I have taken some</li></ul>
16 17 18 19 20 21 22	<ul> <li>A. The row.</li> <li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li> <li>A. Correct.</li> <li>Q. Thank you. Then we move on to examination of Lamma IV. Could we have the photograph at page 386. The bottom photograph shows Lamma IV. In fact there's</li> </ul>	17 18 19 20 21 22	<ul><li>the walls in the vessel itself, Lamma IV?</li><li>A. This is some printing, just on the wall.</li><li>THE CHAIRMAN: On the wall of the vessel?</li><li>A. Yes, on the wall of the vessel. And I have taken some photograph, and I can show it if you need.</li></ul>
15 16 17 18 19 20 21 22 23	<ul> <li>A. The row.</li> <li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li> <li>A. Correct.</li> <li>Q. Thank you. Then we move on to examination of Lamma IV. Could we have the photograph at page 386. The bottom photograph shows Lamma IV. In fact there's a model in front of us that is divided into three decks.</li> </ul>	17 18 19 20 21 22 23	<ul><li>the walls in the vessel itself, Lamma IV?</li><li>A. This is some printing, just on the wall.</li><li>THE CHAIRMAN: On the wall of the vessel?</li><li>A. Yes, on the wall of the vessel. And I have taken some photograph, and I can show it if you need.</li><li>THE CHAIRMAN: Yes. I think we've seen photographs of</li></ul>
16 17 18 19 20 21 22	<ul> <li>A. The row.</li> <li>Q only two types of load weight: one is nil, the other 104 passengers; is that correct?</li> <li>A. Correct.</li> <li>Q. Thank you. Then we move on to examination of Lamma IV. Could we have the photograph at page 386. The bottom photograph shows Lamma IV. In fact there's</li> </ul>	17 18 19 20 21 22	<ul><li>the walls in the vessel itself, Lamma IV?</li><li>A. This is some printing, just on the wall.</li><li>THE CHAIRMAN: On the wall of the vessel?</li><li>A. Yes, on the wall of the vessel. And I have taken some photograph, and I can show it if you need.</li></ul>

1	Page 93		Page 95
1	affixed on the wall of the cabin of the vessel, then we	1	Q. We cannot see the slit on the photograph well, we can
2	think we could identify it. I was just thinking whether	2	see the slit perhaps rather vaguely. If we can look at
3	it could well be some other piece of paper that some	3	page 386. The slit was actually very much near the
4	other people have given to you, that's why I wanted to	4	stern; correct?
5	ascertain that.	5	A. Yes.
6	A. Okay.	6	Q. If we look at some photographs later on, perhaps we will
7 8	Q. But it was actually something that was actually affixed on the vessel?	7 8	be able to A. In this photograph it is obvious
9	A. Yes.	9	Q. It's barely visible.
10	Q. Thank you. I think we can identify that. It's in the	10	A. On the right-hand side, it's
11	process of being identified, but I won't take up time;	11	Q. Right-hand side, that's near the stern?
12	I'll move on.	12	A. Near the stern, you can see
13	Mr Chairman, insofar as may become necessary, we'll	13	THE CHAIRMAN: As perhaps you were adverting to, Mr Shieh,
14	actually locate the relevant photograph of that, but	14	it's graphically demonstrated in the marine bundle of
15	I'll move on for the time being.	15	photographs that begin at page 184, and it's
16	THE CHAIRMAN: Yes. There's no need to delay now.	16	photograph 11.
17	MR SHIEH: Yes, I'll move on.	17	It may be something like 135 or something like that.
18	Paragraph 3.2.1:	18	MR SHIEH: Yes. There are a number of photographs depicting
19	"The hull of Lamma IV was constructed of probably	19	the damaged state. For example, 133, MB1/133.
20	aluminium alloy, having a flat-bottom chined hull with	20	THE CHAIRMAN: That's the photograph?
21	an almost flat bottom and near-vertical hull above the	21	A. Yes.
22	bottom."	22	MR SHIEH: On the right-hand side, the far right of that,
23	We could actually see the chine in the photograph we	23	you can even still see the cable?
24	have seen at page 386.		A. Yes, the steel cable wedged between the slit. This is
25	A. Yes. Photo 10.	25	the slit I'm referring to.
	Page 94		• Page 96
1	THE CHAIRMAN: We can see it perhaps better in	1	Q. Yes. Thank you.
2			
	photograph 11, page 387.	2	At paragraph 3.2.3, coming back to your report in
3	photograph 11, page 387. MR SHIEH: Yes.	2 3	At paragraph 3.2.3, coming back to your report in the expert bundle, page 367:
3	MR SHIEH: Yes.	3	the expert bundle, page 367:
3 4	MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull? A. Yes, exactly.	3 4	the expert bundle, page 367: "A gash and a jagged hole were found on the port side of the hull" Coincidentally, it's also photo 11 which we can find
3 4 5	<ul><li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li><li>A. Yes, exactly.</li><li>Q. At paragraph 3.2.1 you set out the height from the chine</li></ul>	3 4 5	the expert bundle, page 367: "A gash and a jagged hole were found on the port side of the hull" Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes.
3 4 5 6 7 8	<ul><li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li><li>A. Yes, exactly.</li><li>Q. At paragraph 3.2.1 you set out the height from the chine to the main deck, and you describe the colouring,</li></ul>	3 4 5 6 7 8	the expert bundle, page 367: "A gash and a jagged hole were found on the port side of the hull" Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes. The gash measured 0.3 metres wide, extended from the
3 4 5 6 7 8 9	<ul><li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li><li>A. Yes, exactly.</li><li>Q. At paragraph 3.2.1 you set out the height from the chine to the main deck, and you describe the colouring, basically blue above waterline, and brown below</li></ul>	3 4 5 6 7 8 9	the expert bundle, page 367: "A gash and a jagged hole were found on the port side of the hull" Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes. The gash measured 0.3 metres wide, extended from the gunwale at a position of about 10 metres from the
3 4 5 6 7 8 9 10	<ul><li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li><li>A. Yes, exactly.</li><li>Q. At paragraph 3.2.1 you set out the height from the chine to the main deck, and you describe the colouring, basically blue above waterline, and brown below waterline. We can see that again at photo 11, page 387.</li></ul>	3 4 5 6 7 8 9 10	<ul> <li>the expert bundle, page 367:</li> <li>"A gash and a jagged hole were found on the port side of the hull"</li> <li>Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes.</li> <li>The gash measured 0.3 metres wide, extended from the gunwale at a position of about 10 metres from the transom. The transom is really the back of the vessel?</li> </ul>
3 4 5 6 7 8 9 10 11	<ul> <li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li> <li>A. Yes, exactly.</li> <li>Q. At paragraph 3.2.1 you set out the height from the chine to the main deck, and you describe the colouring, basically blue above waterline, and brown below waterline. We can see that again at photo 11, page 387.</li> <li>A. Yes.</li> </ul>	3 4 5 6 7 8 9 10 11	<ul> <li>the expert bundle, page 367:</li> <li>"A gash and a jagged hole were found on the port side of the hull"</li> <li>Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes.</li> <li>The gash measured 0.3 metres wide, extended from the gunwale at a position of about 10 metres from the transom. The transom is really the back of the vessel?</li> <li>A. Yes, the back.</li> </ul>
3 4 5 6 7 8 9 10 11 12	<ul> <li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li> <li>A. Yes, exactly.</li> <li>Q. At paragraph 3.2.1 you set out the height from the chine to the main deck, and you describe the colouring, basically blue above waterline, and brown below waterline. We can see that again at photo 11, page 387.</li> <li>A. Yes.</li> <li>Q. Unfortunately the two big holes were in the brown part,</li> </ul>	3 4 5 6 7 8 9 10 11 12	<ul> <li>the expert bundle, page 367:</li> <li>"A gash and a jagged hole were found on the port side of the hull"</li> <li>Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes. The gash measured 0.3 metres wide, extended from the gunwale at a position of about 10 metres from the transom. The transom is really the back of the vessel?</li> <li>A. Yes, the back.</li> <li>Q. The far back of the vessel. Running about 3.3 metres</li> </ul>
3 4 5 6 7 8 9 10 11 12 13	<ul> <li>MR SHIEH: Yes. That's what you refer to as the chine: a sharp angle in the hull?</li> <li>A. Yes, exactly.</li> <li>Q. At paragraph 3.2.1 you set out the height from the chine to the main deck, and you describe the colouring, basically blue above waterline, and brown below waterline. We can see that again at photo 11, page 387.</li> <li>A. Yes.</li> <li>Q. Unfortunately the two big holes were in the brown part, as we subsequently came to find out.</li> </ul>	3 4 5 6 7 8 9 10 11 12 13	<ul> <li>the expert bundle, page 367:</li> <li>"A gash and a jagged hole were found on the port side of the hull"</li> <li>Coincidentally, it's also photo 11 which we can find at page 387 of this bundle. The top part. Yes. The gash measured 0.3 metres wide, extended from the gunwale at a position of about 10 metres from the transom. The transom is really the back of the vessel?</li> <li>A. Yes, the back.</li> <li>Q. The far back of the vessel. Running about 3.3 metres aft towards the chine.</li> </ul>
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	Page 97		Page 9	99
1	Q. " and ended at a position about 6.1 metres from the	1	but you can confirm if we were to close-up of the brown	
2	transom"	2	part, we could see very deep scratches.	
3	We can't see the transom on this photograph but	3	A. On this photograph we still see the scratches, but it	
4	basically if you measure from this point to the very	4	cannot show it very clear. It is much, much deeper.	
5	back, it would be 6.1 metres; correct?	5	Q. Right. Okay.	
6	A. Correct.	6	Could you assist us in identifying perhaps where	
7	Q. The point where it stopped, where the cursor is, was	7	those deep scratches might be, from your recollection?	
8	where you found a bulkhead, correct, which separated two	8	A. Just on the brown hull between the hole and the gash.	
9	watertight compartments; correct?	9	This part, yes.	
10	A. Yes, correct. The bulkhead separates the engine room	10	Q. Right.	
11	and	11	A. Yes, here.	
12	Q. And the tank room?	12	Q. Yes. That would be the deep blue scratches?	
	A the tank room.		A. No, no. These are just scratches.	
14	Q. Yes, you saw that because you were able to go in and	14	Q. Just scratches? Just scratches?	
15	identify where the bulkhead was	15	A. Yes.	
16	A. Exactly.	16	Q. Right. Not necessarily deep blue, but just scratches?	
17	Q and which two compartments, et cetera, et cetera?	17	A. Yes.	
18	A. Yes.	18	Q. Right. Thank you. Your report went on to say:	
19	Q. "Horizontal scratches, some with deep blue smears	19	"These scratches appeared smoothly and	
20	running aft, were found on the hull behind the gash."	20	uninterrupted, suggested at that an object, which was	
21	The bottom figure. The horizontal scratches are	21	subsequently confirmed to be the broken keel of the port	
22	those circled in red?	22	hull of Sea Smooth, had moved from the gash towards the	
	A. Yes.	23	hole in a single swipe."	
24	Q. You said "some with deep blue smears". That part of the	24	We'll come to that in due course.	
25	vessel was already coloured blue, so you're referring to	25	Paragraph 3.2.4:	
	Page 98		· Page 10	)0
-				
1 1	scratches which were of a different shade of blue.	1	"The hole, measuring 0.4 metres high by 0.6 metres	
1 2	scratches which were of a different shade of blue. A. Yes.	1	"The hole, measuring 0.4 metres high by 0.6 metres wide"	
2	A. Yes.	2	wide"	
		1	wide" Could we go back to page 387, the top one.	
2 3	<ul><li>A. Yes.</li><li>Q. I think we can actually just make out a different shade</li></ul>	2 3	wide" Could we go back to page 387, the top one. When you talk about the hole, you are talking about	
2 3 4	<ul><li>A. Yes.</li><li>Q. I think we can actually just make out a different shade of colour.</li><li>A. Yes.</li></ul>	2 3 4	wide" Could we go back to page 387, the top one. When you talk about the hole, you are talking about the one described as the jagged hole, this one?	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. Yes.</li> <li>Q. I think we can actually just make out a different shade of colour.</li> <li>A. Yes.</li> <li>Q. For example, the bottom one there, we can perhaps see a different shade of blue.</li> <li>A. Yes.</li> <li>Q. A darker shade of blue.</li> <li>A. I can, yes, a little bit.</li> <li>Q. Thank you. Can we go back to the report, page 367: <ul> <li>"Of these scratches, those on the brown-painted hull were the deepest, running towards the hole and ending there."</li> <li>But we don't actually have a photo depicting such scratches on the brown-painted hull.</li> </ul> </li> <li>A. Maybe photo 11, but it is not very clear.</li> <li>Q. One would need a close-up.</li> <li>A. Yes, we need a close-up.</li> <li>A. The overall view, yes.</li> <li>Q. Sorry?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>wide"</li> <li>Could we go back to page 387, the top one.</li> <li>When you talk about the hole, you are talking about the one described as the jagged hole, this one?</li> <li>A. Yes.</li> <li>Q. Correct?</li> <li>A. Correct.</li> <li>Q. 0.6 metres wide so the horizontal measurement is 0.6; correct?</li> <li>A. Correct, yes.</li> <li>Q. And the vertical</li> <li>A. With the vertical.</li> <li>Q measurement, 0.4; correct?</li> <li>A. Yes.</li> <li>Q. Thank you. <ul> <li>" about 5.5 metres from the transom"</li> <li>Again, if we imagine the transom being on the far right of this photograph, then that hole was 5.5 metres from the transom, which we imagine on the far right of this screen; correct?</li> </ul> </li> </ul>	

	Page 101		Page 103
1	inwards. A piece of internal framing immediately behind	1	A. Yes, yes.
	the hole was badly distorted and buckled inwards to the	2	THE CHAIRMAN: Mr Shieh, might I suggest we have a look at
	stern."	3	the Marine Department's photograph.
4	Could we close-up on that hole to see whether or not	4	MR SHIEH: Yes.
	we can identify what you were discussing, a piece of	5	THE CHAIRMAN: Photograph 5 shows it graphically, beginning
	framing badly distorted and buckled inwards?	6	at page 124.
	. It is difficult to observe this from this photograph.	7	MR SHIEH: Marine bundle 1.
	But at the scene I have another set of photographs	8	THE CHAIRMAN: But at photograph 5.
	which can show it much more clear.	9	MR SHIEH: Yes. Marine bundle 1, page 130.
	. Right.	10	THE CHAIRMAN: Is that what you're describing?
-	. But at the scene, we can see the hull was bent inwards.	11	A. Yes, that is the largest pieces of fibreboard finally
	. Would it suggest that the force actually came	12	retrieved from the gash and just put it on the floor,
-	. From the outside, towards	13	then I make the measurement.
	. Towards the stern to?	14	MR SHIEH: This was what eventually was found out to be the
-	. Yes, towards the Lamma IV.	15	bow of the Sea Smooth?
	. Yes. Not just towards Lamma IV, but at an angle towards	16	A. Correct.
	the stern?	17	Q. Because there are a number of photographs taken from
	. It is difficult to determine the angle, but we know the	18	different angles and perspectives. Because if you look
	direction is	19	at the thank you, Mr Chairman, for directing our
	. Yes, I'm not talking about the precise angle but the	20	attention to photo 5.
	direction was towards the stern?	21	In fact, if we look at photo 6, that's taken from,
	. Correct, yes.	22	again, a different angle at the same gash.
	Because I'm going to ask about the angle, because you	23	A. Yes.
	estimated about 30 degrees, I take it?	24	Q. There is probably a bit of reflection there, but we can
	. Yes, from the other part.	25	also see the gash actually filled up
	Page 102		Page 104
1 0		-	
	Yes. Paragraph 3.2.4, back to your report:	1	A. With the fibreboard.
2	"The thickness of the aluminium alloy hull at the	2	Q by the remains of the fibreboard.
	hole and the gash was measured to be about 5-6 mm.	3	A. Yes.
4	3.2.5. A piece of fibreboard with deep blue paint	4	Q. Then what I want you to help us with is to look at
	at the top and brown paint at the bottom was found to	5	page 388 of the expert bundle, at the bottom. There is
	have been wedged in the gash. The recovered largest	6	a notation there saying "The gash" and "The fibreboard
	piece of fibreboard, measuring about 2.6 metres high and	7	fragment". Was this taken from inside?
	1.3 metres wide, having deep blue and brown paintwork,		A. Yes.
	had originated from the bow of the port hull Close	9	Q. It was taken from inside?
	examination of the fibreboard fragments revealed an		A. Yes, from the yes?
	imprint having size and shape, partially agreeing with	11	Q. The tank room?
	the L-shipped metal plating on the bow of the starboard		A. No, this is the engine room.
	hull"	13	Q. I think that's the engine room, closer to where the gash
14	Could we see photo 13 at page 388.	14	was.
15	Could you explain to us this paragraph. First of	15	So this is taken from inside the engine room?
16	all, you said at the beginning:	16	A. Yes. So we can still see the deep blue colour part of
	"A piece of fibreboard with deep blue paint at the	17	the fragment.
17		18	THE CHAIRMAN: Again, Mr Shieh, this is shown in
17 18	top and brown paint at the bottom was found to have been		
17 18 19	wedged in the gash."	19	photograph 13 of the marine bundle.
17 18 19 20	wedged in the gash." From the photographs, were you able to identify this	19 20	MR SHIEH: Mr Chairman, photograph 13 is not
17 18 19 20 21	wedged in the gash." From the photographs, were you able to identify this piece of fibreboard?	19 20 21	MR SHIEH: Mr Chairman, photograph 13 is not THE CHAIRMAN: This is marine bundle 1.
17 18 19 20 21 22 A.	<ul><li>wedged in the gash."</li><li>From the photographs, were you able to identify this piece of fibreboard?</li><li>From this photograph, it shows the largest pieces of</li></ul>	19 20 21 22	MR SHIEH: Mr Chairman, photograph 13 is not THE CHAIRMAN: This is marine bundle 1. MR SHIEH: It's marine bundle 1, but photograph 13 is
17 18 19 20 21 22 A. 23	<ul><li>wedged in the gash."</li><li>From the photographs, were you able to identify this piece of fibreboard?</li><li>From this photograph, it shows the largest pieces of fibreboard. Near the top we can see the deep blue</li></ul>	19 20 21 22 23	MR SHIEH: Mr Chairman, photograph 13 is not THE CHAIRMAN: This is marine bundle 1. MR SHIEH: It's marine bundle 1, but photograph 13 is actually the starboard
17 18 19 20 21 22 A. 23 24	<ul><li>wedged in the gash."</li><li>From the photographs, were you able to identify this piece of fibreboard?</li><li>From this photograph, it shows the largest pieces of</li></ul>	19 20 21 22	MR SHIEH: Mr Chairman, photograph 13 is not THE CHAIRMAN: This is marine bundle 1. MR SHIEH: It's marine bundle 1, but photograph 13 is

1	Page 10	5	Page 1	.07
1	page 155.	1	seen. These are the photos taken from inside the engine	
2	MR SHIEH: Yes.	2	room. You mentioned the piece of fibreboard wedged in	
3	THE CHAIRMAN: Yes. There it is.	3	the gash. The bulkhead separating D from E, that's the	
4	MR SHIEH: Marine bundle 1, page 155.	4	bulkhead between the engine room and the tank room,	
5	THE CHAIRMAN: So that's the part of the port hull of Sea	5	appear to be watertight as well; correct?	
6	Smooth that's broken off inside the engine room in	6	A. Correct.	
7	the hull, into the engine room?		Q. Paragraph 3.3.6:	
8	A. Correct.	8	"Compartment E [the tank room] and compartment F	
9	MR SHIEH: Thank you. Could we go back to the report at	9	[the steering gear compartment] were separated by	
10	paragraph 3.2.5.	10	a non-watertight (open) bulkhead, having an opening of	
11	At the end of that paragraph, you said:	11	0.6 metres wide and 1.2 metres high."	
12	"In addition, the draft marks on the fibreboard	12	There are a number of photographs of that. Page 389	
13	fragment match with those on the starboard hull of Sea	13	is the photograph that you took. That's the access	
	Smooth, particularly the mark of '1.2' straddling the		opening without a door; correct?	
14	waterline."	14		
15		15		
16	Then there's a reference to photo 3 which we can	16	Q. In marine bundle 1 at page 162 first of all we'll look at the grant bundle page 290. Yes. Then up may	
17	find at page 383.	17	look at the expert bundle, page 389. Yes. Then we move	
18	A. Yes.	18	to marine bundle 1, page 162. That's the access opening	
19	Q. Of course here, we are talking about the 1.2 mark on the	19	that you observed?	
20	broken hull.	20	A. Yes.	
21	A. Yes.	21	Q. 0.6 metres wide and 1.2 metres high. You say:	
22	Q. This one showed 1.2 on the starboard	22	"Both compartments had deposited with a layer of	
23	A. Yes, just straddling the waterline.	23	mud. Compartment E was the tank room and the jagged	
24	Q. Yes. Thank you.	24	hole was situated in compartment E on the port side"	
25	Then we move on to the underdeck.	25	You refer to photograph 16 at page 389. This is	
	Page 100	5	• Page 1	.08
1	"The interior area of the hull, the underdeck, was	1	a photograph that was taken from inside the tank room;	
2	divided transversely into a total of six compartments	2	correct?	
3	arbitrarily named as compartment A to	3	A. Correct.	
4	compartment F	4	Q. But we know what the hull looked like from the outside.	
5		-		
	Compartment A was a space beneath the foredeck. The	5	A. Yes.	
б	Compartment A was a space beneath the foredeck. The manhole to compartment A was bolted tightly probably			
6 7	manhole to compartment A was bolted tightly probably a void space"	5	<ul><li>A. Yes.</li><li>Q. We have seen pictures of that.</li><li>A. From this picture, you can see the broken edge of the</li></ul>	
	manhole to compartment A was bolted tightly probably	5 6	<ul><li>A. Yes.</li><li>Q. We have seen pictures of that.</li></ul>	
7	manhole to compartment A was bolted tightly probably a void space" In this case I don't believe that there is a particular significance in compartment A, so I will	5 6 7	<ul><li>A. Yes.</li><li>Q. We have seen pictures of that.</li><li>A. From this picture, you can see the broken edge of the hull bent inward, particularly the top one. Yes, this one.</li></ul>	
7 8	<ul> <li>manhole to compartment A was bolted tightly probably a void space"</li> <li>In this case I don't believe that there is a particular significance in compartment A, so I will skip over that, unless you have anything to add.</li> </ul>	5 6 7 8	<ul><li>A. Yes.</li><li>Q. We have seen pictures of that.</li><li>A. From this picture, you can see the broken edge of the hull bent inward, particularly the top one. Yes, this one.</li><li>Q. Yes. That shows it bent inwards. That was the one that</li></ul>	
7 8 9	<ul> <li>manhole to compartment A was bolted tightly probably a void space"</li> <li>In this case I don't believe that there is a particular significance in compartment A, so I will skip over that, unless you have anything to add.</li> <li>Compartment A is relatively insignificant in the</li> </ul>	5 6 7 8 9	<ul><li>A. Yes.</li><li>Q. We have seen pictures of that.</li><li>A. From this picture, you can see the broken edge of the hull bent inward, particularly the top one. Yes, this one.</li></ul>	
7 8 9 10	<ul> <li>manhole to compartment A was bolted tightly probably a void space"</li> <li>In this case I don't believe that there is a particular significance in compartment A, so I will skip over that, unless you have anything to add.</li> </ul>	5 6 7 8 9 10	<ul><li>A. Yes.</li><li>Q. We have seen pictures of that.</li><li>A. From this picture, you can see the broken edge of the hull bent inward, particularly the top one. Yes, this one.</li><li>Q. Yes. That shows it bent inwards. That was the one that</li></ul>	
7 8 9 10 11	<ul> <li>manhole to compartment A was bolted tightly probably a void space"</li> <li>In this case I don't believe that there is a particular significance in compartment A, so I will skip over that, unless you have anything to add. Compartment A is relatively insignificant in the investigation.</li> <li>A. Yes, I agree.</li> </ul>	5 6 7 8 9 10 11	<ul> <li>A. Yes.</li> <li>Q. We have seen pictures of that.</li> <li>A. From this picture, you can see the broken edge of the hull bent inward, particularly the top one. Yes, this one.</li> <li>Q. Yes. That shows it bent inwards. That was the one that was not very well captured in the picture that was taken outside.</li> <li>A. Yes, correct.</li> </ul>	
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	Page 109		Page 111
1	A. Yes.	1	THE CHAIRMAN: At all events, in Dr Armstrong's first
2	THE CHAIRMAN: Is that accurate?	2	report, referring to internal pagination, page 49, does
3	MR SHIEH: Well, Dr Armstrong certainly accepted that as	3	that show the stem bar and the keelson, as he thought it
4	accurate in his supplemental report.	4	was?
5	THE CHAIRMAN: He does? Yes. It is Dr Armstrong who	5	MR SHIEH: Where they were supposed to be?
6	describes this best of all, I think.	6	THE CHAIRMAN: Yes.
7	MR SHIEH: Dr Armstrong in his supplemental report referred	7	MR SHIEH: Yes.
8	to this.	8	THE CHAIRMAN: Can we put that up on the screen.
9	THE CHAIRMAN: I'm looking at his appendix 4, photograph 1,	9	MR SHIEH: Page 447 of the expert bundle.
10	where he describes the stem bar and keelson. Is this	10	Perhaps I could ask the witness about this point.
11	what we're talking about?	11	Dr Cheng, can you look at this photograph. This
12	MR SHIEH: He came back to this theme at expert bundle,	12	depicts the port hull, the damaged port hull
13	page 474. It is Dr Armstrong's second report where at	13	A. Yes.
14	paragraph 9 he referred to this particular footnote as	14	Q of the Sea Smooth. This is part of Dr Armstrong's
15	having resolved the query that he had in paragraph 20 of	15	first report. Now that we are on this point, I may be
16	his first report.	16	asking you to comment on certain parts of Dr Armstrong's
17	THE CHAIRMAN: Thank you.	17	first report. So I might as well ask you whether you
18	MR SHIEH: Because if we were to look at Dr Armstrong's	18	have had a chance of looking at Dr Armstrong's first
19	first report in the expert bundle at paragraph 20,	19	report.
20	page 408 of the expert bundle:	20	A. No.
21	"As well as the bow structure of Sea Smooth	21	Q. Right. I'd like you to finish your evidence today, so
22	previously described, the starboard bow of the craft is	22	perhaps overnight could I ask trouble you to have a look
23	also fitted with what appears to be a stainless steel	23	at Dr Armstrong's first report, and I can leave it to my
24	stem plate on the outside of the bow in the area known	24	learned friend on Mr Mok's side to provide the report to
25	as the forefoot. Such stainless steel plates are	25	Dr Cheng.
	Page 110		· Page 112
1		1	
1	commonly fitted for the purpose of dissipating loads	1	But, Dr Cheng, take it from me, this is a photograph
2	resulting from striking floating debris during normal	2	in Dr Armstrong's first expert report and you can see where he had reconstructed where the stem bar was
3	operation, and it appears reasonable to assume that a similar stainless steel plate was fitted to the	3	
4	destroyed port bow. This stainless steel plate is of	45	supposed to be, and where the keelson was supposed to be.
5	itself a very strong structure, closely fitted to the		
6 7	versel forefoot by screws. Whether this stainless steel	6	A. Okay. THE CHAIDMAN: I'd ook that both Dr. Armatrong's month be
8	•	8	THE CHAIRMAN: I'd ask that both Dr Armstrong's reports be
-	plate played any part in the damage resulting from the	-	provided to the witness.
9	collision is not known, as I have not seen any part of this structure. It is not evident in any of the	9	MR SHIEH: Yes. THE CHAIRMAN: It's regrettable they weren't provided
10 11	pictures of the debris removal, and it may have become	10	THE CHAIRMAN: It's regrettable they weren't provided earlier.
12	detached and lost at the scene of the accident."	12	MR SHIEH: Could I ask those instructing my learned friend
13	So this is what Dr Armstrong had alluded to in his	13	Mr Mok to perhaps provide the first report and the
13 14		14	supplemental report to Dr Cheng so that I won't have to
14	report. THE CHAIRMAN: Yes. Where is the evidence that it was	15	catch this witness cold tomorrow.
15	dismantled for maintenance and not installed	16	Dr Cheng, could you look at – by reference to this
17	MR SHIEH: That was according to police information. We can	17	photograph and by reference to footnote 10 of your own
18	follow up with those instructing Mr Mok, because this	18	report at expert bundle 368, you see at footnote 10 you
19	witness referred to what he was told by the police.	19	are making an annotation to your report, to the text of
20	THE CHAIRMAN: I follow that. I'm looking for chapter and	20	your report at the top of this page, when you said:
20	verse. We don't know; is that the answer?	20	"Close examination of the fibreboard fragments
22	MR SHIEH: We do not know.	22	revealed an imprint having size and shape, partially
			ie caree an imprine raying one and onape, partiting
			agreeing with the L-shinned metal plating on the how of
23	THE CHAIRMAN: Yes.	23	agreeing with the L-shipped metal plating on the bow of the starboard hull of the Sea Smooth, but no metal
			agreeing with the L-shipped metal plating on the bow of the starboard hull of the Sea Smooth, but no metal plating was recovered inside the hull of Lamma IV."

	Page 113		Page 11
1	Then at footnote 10, you said:	1	Q. Yes. Here.
2	"According to Police information, the metal plating	2	A. So when we go to page 447, the photograph, that position
3	on the port hull of Sea Smooth was reportedly dismantled	3	should be I just take a guess around letter E.
4	for maintenance and no substitute was reportedly	4	Q. Basically transposing that position to the port side?
5	installed at the time of the accident."	5	A. Yes, exactly.
6	Do you see that was your annotation?	6	Q. Thank you. Perhaps we have to leave that point until we
7	A. Yes.	7	actually see chapter and verse from the Sea Smooth as to
8	Q. By reference to the photograph at page 447, where would	8	the absence of this part.
9	that metal plating be expected to be found?	9	So basically what you have been given to understand
10	A. Let me see. I think the metal plating should start from	10	is that there was actually no metal plating on the
11	a position near the letter E, between the position at	11	corresponding location on the port side?
12	letters E and M. It should be starting from here, going	12	A. Yes.
13	downward, protecting this area.	13	Q. At the time of the accident?
14	Q. Yes.	14	A. Yes.
15	A. Because this is what I make reference to, my	15	Q. Therefore, looking at the text of your report, the
16	photograph 3. Because we see the metal plating starting	16	imprint having size and shape which partially agreed
17	from a position	17	with the L-shaped metal plating was not if that
18	Q. Yes.	18	footnote is correct, then that imprint was not the
19	A at the draft mark 1.4.	19	result of that metal plate coming into contact or
20	Q. Your photo 3 is at page 383.	20	hitting the relevant part?
21	A. Yes, page 383. So this is the starting position is	21	A. This imprint just indicates something has been installed
22	a little bit just above from the waterline. This is	22	over there.
23	the metal plating.	23	Q. Yes.
24	MR SUSSEX: Mr Chairman, Dr Cheng's footnote 10 accords with	24	A. So that result a different colour, then I can find
25	my instructions. If it would assist the Commission, we	25	an imprint on that part.
	Page 114		· Page 11
1	can obviously try and obtain evidence to substantiate	1	Q. Yes. But it doesn't necessarily mean that there was in
2	that. I imagine that the police must have got their	2	fact an object there at the time of the collision?
3	information from my clients in any event.	3	A. Correct.
4	THE CHAIRMAN: I'd have thought it was documented by now.	4	Q. Thank you. So the explanation that had been given to
5	It's a question of locating it.	5	you is consistent or not inconsistent with what you had
6	MR SUSSEX: Yes, quite.	6	observed by way of the imprint?
7	THE CHAIRMAN: If the police have passed that on to	7	A. I note down this information because it's just
8	an expert witness, they'll have a reason for doing so,	8	consistent with my finding.
9	and I'm sure it's a documented one.	9	Q. Thank you. We looked at the rest of this page
9 10	MR SUSSEX: Yes.	10	previously, so could we move on to paragraph 3.3.7:
		11	"The substantial damage to the port side of
1.1	THE CHAIRMAN' So it we can see it we can locate if		
11 12	THE CHAIRMAN: So if we can see if we can locate it. MR SUSSEX: We can both try	1	
12	MR SUSSEX: We can both try.	12	compartments D and E suggests that water ingress into
12 13	MR SUSSEX: We can both try. MR SHIEH: So the paper trail is complete, rather than to	12 13	compartments D and E suggests that water ingress into them was sudden and unstoppable. As the bulkhead
12 13 14	MR SUSSEX: We can both try. MR SHIEH: So the paper trail is complete, rather than to rely on what is reported to have been said to this	12 13 14	compartments D and E suggests that water ingress into them was sudden and unstoppable. As the bulkhead between compartments E and F was not watertight, three
12 13 14 15	MR SUSSEX: We can both try. MR SHIEH: So the paper trail is complete, rather than to rely on what is reported to have been said to this witness.	12 13 14 15	compartments D and E suggests that water ingress into them was sudden and unstoppable. As the bulkhead between compartments E and F was not watertight, three out of six compartments in the underdeck could have
12 13 14 15 16	MR SUSSEX: We can both try. MR SHIEH: So the paper trail is complete, rather than to rely on what is reported to have been said to this witness. THE CHAIRMAN: We're looking for chapter and verse,	12 13 14 15 16	compartments D and E suggests that water ingress into them was sudden and unstoppable. As the bulkhead between compartments E and F was not watertight, three out of six compartments in the underdeck could have flooded rapidly after the vessel sustained the damage."
12 13 14 15 16 17	MR SUSSEX: We can both try. MR SHIEH: So the paper trail is complete, rather than to rely on what is reported to have been said to this witness. THE CHAIRMAN: We're looking for chapter and verse, documentary.	12 13 14 15 16 17	compartments D and E suggests that water ingress into them was sudden and unstoppable. As the bulkhead between compartments E and F was not watertight, three out of six compartments in the underdeck could have flooded rapidly after the vessel sustained the damage." Correct?
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12 13 14 15 16 17 18 19	<ul> <li>MR SUSSEX: We can both try.</li> <li>MR SHIEH: So the paper trail is complete, rather than to rely on what is reported to have been said to this witness.</li> <li>THE CHAIRMAN: We're looking for chapter and verse, documentary.</li> <li>MR SHIEH: Yes.</li> <li>THE CHAIRMAN: Or a witness statement.</li> </ul>	12 13 14 15 16 17 18 19	<ul> <li>compartments D and E suggests that water ingress into them was sudden and unstoppable. As the bulkhead between compartments E and F was not watertight, three out of six compartments in the underdeck could have flooded rapidly after the vessel sustained the damage." Correct?</li> <li>A. Correct.</li> <li>Q. So what started off as two holes from the outside</li> </ul>
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	Page 117	Page 119
1 A. Correct.	1	A. No, this one.
2 Q. Thank you. Moving on. Paragraph 3.4:	2	
3 "The main deck cabin was encircled by a passage		
4 of 0.9 metres wide along the rub rail, and the	4	
5 passageway was further enclosed by railing."	5	
6 Page 390 of the bundle, please, shows that	6	-
7 passageway.	7	MR SHIEH: There isn't a plan which describes which are
8 That's the passageway that you referred to?	8	
9 A. Yes.	9	
10 Q. "The cabin had 8 rows and 11 rows of seats respec	-	
11 situated"	11	
12 We're back at page 369 of the bundle. Yes.	12	
13 "In addition, there were two rows of seats	13	
14 amidships. Each leg of the seats had a rectangular	14	
<ul> <li>anidships. Each leg of the scats had a rectangular</li> <li>mounting plate, which was found to have been secu</li> </ul>		
16 the metal deck with a pair of 2.7 cm bolts."		
1		
17 Could we have page 390 of the bundle. The bott		
18 photograph shows the metal deck, the metal mount	-	<b>5</b> 1
19 plate and also the bolt.	19	
20 A. Yes.	20	1 , 2,
21 Q. Correct? Thank you.	21	, I
22 Paragraph 3.4.2:	22	
23 "There was a staircase in the middle of the main	23	
24 deck cabin leading to the upper deck cabin. Anothe		5
25 staircase was found at the stern connected the	25	is us which windows they broke into and which ones they got
	Page 118	• Page 120
1 passageway on the main deck leading to the weather de		
2 on the upper deck."		out of.
	ck 1	out of. MR SHIEH: It's in Fire Services Department bundle 3, I've
2 on the upper deck."	cck 1 2	out of. MR SHIEH: It's in Fire Services Department bundle 3, I've been reminded.
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Page 121		Page 123
frame.	1	MR SHIEH: That is what you meant by "reached a position
		near the centreline"?
	3	A. Yes.
	4	Q. Because that's where the deep blue paint smears
and suggests that the bow at the moment of contact has	5	appeared?
	6	A. Yes, and the paint agreed with the hull of Sea Smooth.
Q. Within Lamma IV?	7	Q. Thank you. Paragraph 3.4.5, at the bottom of that page:
A. Yes, within Lamma IV.	8	"The gash on the port side of the hull could be
Q. Can we go back to paragraph 3.4.4 of the report at	9	observed on the passageway amidships, which existed as
page 369.	10	a straight cut of about 50 cm wide and ended by the side
"The fallen ceiling frame was heavy and large,	11	panel of the main deck cabin. The angle of the gash on
measuring about 4.8 metres long and 2 metres wide.	12	the passageway was found to be about 30 degrees from the
	13	bow (see photo 17)."
		So we have page 390. Could you help us. The gash
	15	is pointed out by a red angle.
	16	A. Yes.
•	17	Q. When you say, "The angle of the gash on the passageway
•	18	was found to be about 30 degrees from the bow", what
		angle were you referring to?
		A. The length of the vessel, from the bow, it is
		30 degrees.
		THE CHAIRMAN: So on photograph 17, we see the gash
		A. Yes.
		THE CHAIRMAN: and we see the white wall of the cabin?
Lamma IV, now far had sne travened inside the main deck	25	A. Yes.
Page 122		• Page 124
of Lamma IV?	1	THE CHAIRMAN: And the angle between the two is about
	2	30 degrees?
	3	A. Yes, correct.
	4	MR SHIEH: That's what you mean by "30". Right.
	5	I have some questions about Dr Armstrong's report to
	6	ask you about angle, but given that you had indicated
		that you have not yet had a chance of reading
	8	Dr Armstrong's report, I'll save that for tomorrow.
	9	A. Okay.
		Q. There is a part in Dr Armstrong's report about angle of
		impact. Perhaps I would particularly ask you to look at
		that.
		A. No problem.
		Q. Thank you.
		Paragraph 3.4.6, over the page at page 370 of the bundle:
		"The passageway on either side was covered by porch.
		On the port side under the ceiling of the porch were
		U-shaped pipe mounting brackets, which were painted in
Smooth reached that position.	20	red (see photo 21)."
THE CHAIRMAN: Yes.	21	We can see at page 392 of the bundle, the circle
the crantum in the too.		
A. That indicates Sea Smooth at that time at least reached	22	shows us the U-shaped mounting brackets: correct?
A. That indicates Sea Smooth at that time at least reached that position, and then made a contact, left a sign	22 23	shows us the U-shaped mounting brackets; correct? A. Correct.
A. That indicates Sea Smooth at that time at least reached that position, and then made a contact, left a sign there.	22 23 24	A. Correct. Q. "A horizontal strip of red paint smears was found on the
	<ul> <li>Q. You have particularly highlighted that area which showed deep blue paint smears.</li> <li>A. Yes, and this colour agrees with the hull of Sea Smooth and suggests that the bow at the moment of contact has already reached this position.</li> <li>Q. Within Lamma IV?</li> <li>A. Yes, within Lamma IV.</li> <li>Q. Can we go back to paragraph 3.4.4 of the report at page 369.         <ul> <li>"The fallen ceiling frame was heavy and large, measuring about 4.8 metres long and 2 metres wide.</li> <li>Behind the last row of seats on the port side was the central unit of the air-conditioning system, of which the housing was badly deformed and collapsed rearwards." If we could have page 391, photo 20.</li> <li>The circle refers to the crushed air-conditioning system?</li> <li>A. Yes.</li> </ul> THE CHAIRMAN: So from what you are setting out here, in paragraph 3.4.4, how far into the main deck of Lamma IV had Sea Smooth penetrated? A. Sea Smooth? THE CHAIRMAN: Sea Smooth having struck the port side of Lamma IV? how far had she travelled inside the main deck Page 1222 of Lamma IV? A. The distance should be – just an estimation – about the length of the damage on the side panel. So I think – there are two dimensions, because when the two actually came into contact they make an angle. THE CHAIRMAN: Yes, I understand that. A. So if we're just talking about how far inside on this horizontal direction – THE CHAIRMAN: The thinking about it from a passenger's point of view on Lamma IV. You've got the passengers who are on the port side window, then you've got the one on the next seat, the one on the next seat. A. Yes. THE CHAIRMAN: To the middle? A. Yes. That is what I call the centreline, because – MR SHIEH: The fifth line of your paragraph 3.4.4, A. Yes. Because the blue smear indicates the bow of Sea</li></ul>	Q. You have particularly highlighted that area which showed deep blue paint smears.       3         A. Yes, and this colour agrees with the hull of Sea Smooth and suggests that the bow at the moment of contact has already reached this position.       6         Q. Within Lamma IV?       7         A. Yes, within Lamma IV.       8         Q. Can we go back to paragraph 3.4.4 of the report at page 369.       9         "The fallen ceiling frame was heavy and large, measuring about 4.8 metres long and 2 metres wide.       11         Behind the last row of seats on the port side was the central unit of the air-conditioning system, of which the housing was badly deformed and collapsed rearwards."       15         If we could have page 391, photo 20.       16         The circle refers to the crushed air-conditioning system?       18         A. Yes.       19         THE CHAIRMAN: So from what you are setting out here, in paragraph 3.4.4, how far into the main deck of Lamma IV alparagraph 3.4.4, how far into the main deck of Lamma IV alparagraph 3.4.4, how far into the main deck of Lamma IV alparagraph 3.4.4, how far had she travelled inside the main deck       25         Page 1222         of Lamma IV?       1         A. The distance should be – just an estimation – about the length of the damage on the side panel. So       3         I think – there are two dimensions, because when the two actually came into contact they make an angle.       5         THE CHAIRMAN: Yes, I u

	Page 125		Page	127
1	THE CHAIRMAN: Just before you move on.	1	THE CHAIRMAN: Well, I'm going to ask that they're made	
2	When you describe a porch, do you mean that there	2	available to you in case you're able to find something	
3	was a little roof area next to the wall, over what was	3	that better illustrates a point that you're trying to	
4	the walking area round the outside of the hull?	4	make with one of your own photographs. If that's of any	
5	A. Yes.	5	help to you, of course you can refer us to them.	
6	THE CHAIRMAN: Thank you.	6	A. Okay.	
7	MR SHIEH: "A horizontal strip of red paint smears was found	7	MR SHIEH: I was about to ask for the police album to be	
8	on the top of the broken side panel. These findings	8	shown to the witness, and also marine bundle 1.	
9	suggest that a red pipe probably mounted below the porch	9	THE CHAIRMAN: Yes. I don't want to bury you with	
10	on the port side could have been detached from its	10	photographs, because we've got a lot. But the bundle	
11	mounted and pushed towards the cabin before it was lost.	11	that I've found very useful is marine bundle 1, which	
12	The red paint fragments on the foredeck of Sea Smooth	12	begins at page 124, because it's got useful diagrams and	
13	were found to agree in colour with the red paint of the	13	illustrations of what we're looking at.	
14	U-shaped pipe mounting brackets."	14	A. Okay.	
15	A. Correct.	15	THE CHAIRMAN: So you might start with that.	
16	THE CHAIRMAN: Where do we see them?	16	It now being 4.30, we're going to adjourn, Doctor,	
17	MR SHIEH: The red paint fragments, do I understand that to	17	and I'm going to ask you first of all to read	
18	be a reference back to paragraph 2.4 of your report,	18	Dr Armstrong's report, mark that plan with the sliding	
19	page 364? At the bottom, where you refer to "fresh	19	windows for us, if you would, and be ready to continue	
20	scratches with white and red paint smears were found on	20	with your testimony tomorrow at 10 o'clock.	
21	the leading edge of the foredeck at the bow"; is that	21	A. Okay. No problem.	
22	a reference back to that part of your report?	22	THE CHAIRMAN: Thank you. 10 o'clock tomorrow.	
23	A. Yes, and also the previous sentence: that is, "some	23	(4.32 pm)	
24	foreign white, blue and red paint [smear], was scattered	24	(The hearing adjourned until 10 am on the following day)	
25	on the fore deck".	25		
	Page 126		• Page	128
1	THE CHAIRMAN: Yes.	1	INDEX	
2	MR SHIEH: So are you suggesting that the red material, the	2	MR CHAU TO-YUI (on former affirmation)3	
3	red fragments that one can find on the foredeck of the	3	Examination by MR BERESFORD (continued)3	
4	Sea Smooth could possibly have come from the U-shaped	4	Examination by MR MOK26	
5	pipe mounting brackets that one could find on the	5	(The witness withdrew)	
6	passageway?	6	MR TAM YUN-SING (sworn in Punti)30	
7	A. It may be from the bracket, or the missing pipe.	7	Examination by MR BERESFORD	
8	Q. The missing pipe?	8	Examination by MR GROSSMAN41	
9	A. Yes. Because I suppose that it should be painted in the	9	Examination by MR SUSSEX53	
10	same colour.	10	Examination by MR MOK54	
11	Q. And the inference that the pipe was red in colour was	11	Further examination by MR BERESFORD66	
12	based on the existence of the horizontal strip of red	12	Questions by THE COMMISSION68	
13	paint smear on the top of the broken side panel?	13	(The witness withdrew)70	
14	A. Yes.	14	DR CHENG YUK-KI (affirmed)	
15	Q. Were you able to locate any red pipe in the remnants on	15	Examination by MR SHIEH71	
16	the Lamma IV?	16		
17	A. I couldn't.	17		
18	MR SHIEH: Mr Chairman, I wonder whether that would be	18		
19	an appropriate moment.	19		
20	THE CHAIDMAN. Vec that's convenient	20		
21	THE CHAIRMAN: Yes, that's convenient.	- ·		
	Dr Cheng, have you had sight of the various bundles	21		
22	Dr Cheng, have you had sight of the various bundles of photographs that the Marine Department and perhaps	22		
22 23	Dr Cheng, have you had sight of the various bundles of photographs that the Marine Department and perhaps the Fire Department and the Police have taken? Have you	22 23		
22 23 24	Dr Cheng, have you had sight of the various bundles of photographs that the Marine Department and perhaps	22		