Page 1 Page 3 Friday, 8 March 2013 1 with that bulkhead and then position a bulkhead behind 1 2 (10.00 am)2 that at some relevant distance, flood the compartment 3 3 DR NEVILLE ANTHONY ARMSTRONG (on former oath) that he has made, and check whether the margin line was 4 Examination by MR MOK (continued) 4 immersed. He may then adjust the position of the 5 5 THE CHAIRMAN: Good morning, Dr Armstrong. bulkhead to suit. A. Good morning. 6 6 He would then go to the next bulkhead behind that THE CHAIRMAN: May I remind you that you continue to testify 7 7 and do the same thing. So he would work his way down 8 according to your original oath. 8 the vessel, checking whether each compartment, when A. Thank you, Mr Chairman. 9 flooded, immersed the margin line or not. THE CHAIRMAN: Mr Mok. 10 10 When he came, in this example, to the tank room, he 11 MR MOK: Thank you, Mr Chairman. 11 would have a forward bulkhead which was the after end of 12 Dr Armstrong, yesterday you said you wished to have 12 the engine room, and he would check that distance for what he needed for the tank room, put the bulkhead in, 13 a look at the provision in Cap 369AM. Can I invite you 13 14 to have a quick look at that. This is legislation 14 check that it met the margin line requirements, and 15 bundle 2, tab 11. If you could please turn to page 59. 15 locate a bulkhead there. 16 This is part of schedule 1. Have you got that? O. Locate which bulkhead? 16 A. Yes. Thank you. 17 17 A. Sorry, the after end of the tank room. 18 Q. If you look, please, at subparagraph (6) on this page, 18 Q. Right. 19 which deals with "Minimum space of bulkheads". That 19 A. And position that where necessary. Assuming that that 20 encapsulates or at least is one iteration of the 0.1L 20 met the need for the margin line not to be immersed, 21 rule; is that correct? 21 that would then be a satisfactory location for the tank 22 A. Correct. 22 Q. And it is contained in schedule 1 as part and parcel of 23 23 He then comes to the next compartment, which is 24 the rules which are required to be applied in 24 loosely called the aft peak compartment or steering gear 25 calculating the floodable length. 25 compartment. But my reading of this regulation is that Page 2 Page 4 1 1 A. Correct, yes. that is irrelevant because it says: 2 Q. So if you go back, please, to your second supplemental 2 "If the distance between two adjacent main 3 3 report at page 928 of the expert bundle, we were dealing transverse bulkheads ..." 4 The after end of the peak compartment is not 4 with paragraph 12 --5 5 a bulkhead. It is a transom. A. Yes. 6 I'm aware that Marine Department may not interpret 6 Q. -- where you say: it that way, but that is how I interpret it. 7 "A summary of the floodable length calculation for 7 8 margin line immersion in accordance with schedule 1, as 8 Q. I see. 9 given by my spreadsheet for the vessel with a lightship A. The aft peak bulkhead is required to be there under 10 10 according to the inclining experiment ..." a separate part of the legislation. Q. Right. When you say a separate part of the legislation, 11 So the question I wish to ask you is, you agree that 11 12 if you do do the calculation according to schedule 1, 12 which part do you have in mind? A. Thank you. I'm thinking of, in this case, 369 -- excuse that would include the 0.1L rule in paragraph 6(6)? 13 13 14 A. No, Mr Mok, I do not agree. May I explain why? 14 me, Mr Chairman. Q. Yes, please. 15 15 THE CHAIRMAN: Take your time. 16 A. Can we go back to schedule 1, please. 16 A. I'm thinking of 369AM, regulation 7. 17 THE CHAIRMAN: Which of the legislation bundles do we find 17 Q. Yes. A. I'm referring to paragraph (6). Maybe first I can very 18 this in, Mr Mok? 18 MR MOK: It's the same tab. 19 briefly explain how the naval architect goes about 19 20 positioning his bulkheads. 20 MR BERESFORD: It's the same tab, page 8 of the regulations. THE CHAIRMAN: Please do. 21 THE CHAIRMAN: But which bundle is it? 21 22 A. It is only very brief. 22 MR MOK: The same bundle. 3. 23 23 A. It's at the end of regulation 7. Subparagraphs (4) The location of the collision bulkhead is set by 24 a formulation in the regulations at a particular 24 and (5). distance. So he would usually start at the forward end 25 Q. Which page are you looking at?

Page 5 Page 7 A. I'm on page 8 of this document. Q. I have to say, Dr Armstrong, the view that you just 1 THE CHAIRMAN: Which tab is it? 2 expressed, it's quite at variance with I think the 2 3 3 MR MOK: Tab 11, Mr Chairman. Page 8. Marine Department's understanding of the provisions. So 4 Which regulation are you looking at? 4 I think it is worthwhile making this a little clearer. 5 5 A. Regulation 7(4). What you are saying is that when you apply the 0.1L THE CHAIRMAN: Yes. 6 rule in paragraph 6(6) of schedule 1, the transom should 6 7 A. "Every such ship shall be provided with a watertight 7 not be considered as a bulkhead for the purposes of that after peak bulkhead ..." 8 8 rule? Is that what you're saying? 9 And then the following subsection, (5): 9 A. That was my interpretation of it, Mr Mok, and I said that in my very first report. 10 "The stern gland of every such ship shall be 10 situated in a watertight shaft tunnel ... The stern tube Q. Right. 11 11 12 shall be enclosed ..." 12 A. And I was aware that the Marine Department 13 I think the important part there is that Lamma IV 13 representatives disagreed with that. 14 was not a conventional ship, in that it had twin screws. 14 Q. Yes. And you do agree that this is a question of 15 And the stern tubes of course did not go through the aft 15 interpretation? 16 peak compartment. So there needed to be some special 16 A. I don't agree that a bulkhead can be a transom. 17 interpretation for that vessel. 17 Q. No, but it's still a question of interpretation whether 18 MR MOK: In what way? 18 or not the rule in subparagraph (6) should be applied as 19 A. Because it could not -the Marine Department understands it or as you 19 20 THE CHAIRMAN: Before you go on, I've yet to locate this 20 understand it? It's a question of difference of provision. Regulation 11? 21 interpretation? 21 22 MR MOK: No, it's 7(4), Mr Chairman, on page 8. 22 A. Yes, made more confusing by the fact that at the end of THE CHAIRMAN: Thank you. the day, the 0.1L has its origins from the extent of 23 MR MOK: Can you start again, please, Dr Armstrong. 24 damage that is assumed. This comes from a statement 25 that the length of damage shall be -- and then it gives A. Yes. Subparagraph (4): 25 Page 6 Page 8 1 1 "Every such ship shall be provided with a watertight a number of options, and includes 0.1L, whichever is the 2 after peak bulkhead ..." 2 3 3 And then it goes on to give some other provisions. Q. Do you have in mind the paragraph in schedule 3? 4 THE CHAIRMAN: Yes. So that's the separate requirement for A. In schedule 3. It's a damage stability requirement. 4 5 this watertight aft peak bulkhead? 5 Q. Can we have a look at that too, please. MR MOK: That's in relation to ocean-going vessels? 6 A. Please do. 6 A. It is, and it's taken word for word from SOLAS. 7 7 Q. It's page 63. 8 8 A. Section (3). O. Yes. 9 A. Nevertheless, it's also in agreement with the documents 9 Q. Section 1(3)(a)? 10 that you have asked me to talk to yesterday. 10 A. Yes, 1(3)(a). So this is the extent of damage that is assumed in doing the damage stability calculations, and 11 Q. The new documents? 11 12 A. The new documents, yes. It says: 12 this is where I believe the 0.1L comes from when it's 13 "Such bulkheads shall be watertight up to the 13 seen in the watertight subdivision regs. It makes sense 14 bulkhead deck ..." 14 to me anyway. 15 And then it allows it to be stopped if the 15 It becomes confusing because this was deleted in the 16 subdivision is not thereby impaired. In fact, the 16 fax that was -- can I remember the number? Page 1208? 17 bulkhead was taken up to the bulkhead deck. THE CHAIRMAN: That's the 1 August 1994 fax. 17 18 There's then a requirement under subregulation (5) 18 A. I believe it is, yes. Where in the fax the distances of 19 for the stern gland of the ship to be situated in a 19 extent of damage were struck through and replaced with 20 watertight shaft tunnel, and that in fact was done but 20 the words "one-compartment subdivision". In schedule 3. 21 it wasn't located in the after peak compartment, as 21 So I'm not disputing that that was perhaps a mistake, as 22 would be normal on an ocean-going ship. So there was 22 has been stated. But that's how I interpreted it, that 23 need for some special interpretation, I would suggest. 23 the 0.1 had been deleted from this fax as being Not that this regulation 7, I understand, was part of 24 24 a requirement. And the rule, as I read it, said "distances between bulkheads", so the aft peak 25 the legislation that was required for local vessels. 25

Page 9 Page 11 THE CHAIRMAN: In 1996? 1 compartment was not a compartment to which the 0.1L rule 1 2 applied. I appreciate the Marine Department may have A. In 1996. 3 THE CHAIRMAN: The difference was the adding of lead plus 3 a different interpretation. 4 MR MOK: Yes. Just staying on page 63, paragraph (3)(a). 4 the other weight on the vessel in 1998. Do you interpret the reference here to 0.1L as meaning 5 5 A. Correct, yes. 6 something completely different from what we see in MR MOK: But I think for the purposes of this case, it is 7 paragraph 6(6), or similar? 7 important to know that, assuming that there was 8 A. No, I think they have exactly the same origins. 8 a watertight bulkhead at frame 1/2, whether it would or 9 Q. Right. But in terms of application -- let's say -- if 9 would not have passed the 0.1L rule. It is important to 10 the understanding is this, if the distance between two 10 know that, isn't it? bulkheads is less than 0.1 -- sorry. If the distance A. I don't think so. I think it's rather secondary, to be 11 11 12 between two bulkheads is less than 0.1L of the length of 12 13 the ship, then so far as the calculation of damage 13 Q. All right. So let's say, contrary to your view, it may 14 stability is concerned, you would disregard one of the 14 still be necessary to determine that -- assuming that --15 bulkheads separating that particular compartment and the 15 what would your view be? 16 next one? Do you agree that to be the effect? A. I think I've made my view quite clear, Mr Mok, that I don't think it was necessary for the aft peak 17 A. Yes. It states that quite clearly, yes. 17 18 Q. So applying that to Lamma IV, where the distance between 18 compartment to meet the 0.1L requirement. 19 the transom, as you said, to the steering gear Q. That's your view? 19 20 compartment bulkhead is less than 0.1L, do you say that 20 A. Correct. With that as background, it's why I presented 21 that bulkhead that is at frame 1/2 should or should not 21 in my second report the conditions that you started out 22 be disregarded for the purposes of calculating the 22 referring to, where I looked at the tank room on its 23 23 damage stability? own 24 24 A. I believe it should be disregarded, because there is no Q. So I have to put to you, Dr Armstrong, that the Marine

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Page 12

1 a compartment, because it did not have watertight 2 bulkheads at each end.

requirement, as I read it, for that to be treated as

3 Q. I understand that point. But assuming that it was a watertight bulkhead, assuming for the time being, 4 5 should it or should it not be disregarded for the

6 purposes of the 0.1L rule? 7 A. Well, my point is, Mr Mok, that seen from -- I use the

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8 term "perspective of the tank room", when you're 9 designing the tank room, it's more than 0.1L, therefore 10 the watertight bulkhead in that location is entirely 11 valid. But seen from the perspective of designing the

12 aft peak bulkhead, I don't believe that needs to meet

13 floodable length criteria because it is covered by

14 an overarching rule which says "There shall be an aft 15 peak bulkhead".

16 Q. Yes, but the rule, as you call it the after peak bulkhead rule, does not dictate any particular length or 17 any particular location. So it doesn't help with the 18 19 floodable length calculation or with the damage

20 stability calculation. Just to have a bulkhead there 21

doesn't tell you where it should be.

22 A. It may be a semantic argument, Mr Mok, because at the end of the day, the vessel would have passed with both 23

24 the tank room and the aft peak compartment flooded when 25 it was designed, in the condition in which it was built.

1 A. I understand that.

Q. -- and maybe it's a matter which should be left to the

Department disagrees with that interpretation --

4

3 Commission. A. I understand that, yes.

Q. Thank you. So, going back to the table on page 928 under "Tank room only", assuming, just assuming, 6 Dr Armstrong, that the Marine Department is correct, in

7 8 other words that you should, even with a watertight

9 door, disregard the bulkhead at frame 1/2, may I suggest

10 that then this table should be revised so that under

11 "1998", under the line "With watertight door", that the 12

number 1.007 should be amended so that it would read the

13 same as the next line, namely "Immersed by 0.115", and

14 this is because with or without the watertight door --

15 on my interpretation, that is -- the result should be

16 the same? On that assumption, would you agree with

17 that?

18 A. No, Mr Mok, I'm sorry, I would not agree because there's 19 a difference here between what is required to be checked

20 by regulation, which is of course an important

21 requirement, and what I was doing here, which was

22 talking about the practical vessel. It is possible to

23 flood the tank room alone if there is a watertight door

24 there.

Q. Yes. I understand the exercise that you are doing. But

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- 1 what I am saying is if you do apply the rule of 0.1L as
- 2 the Marine Department interprets it, then the result
- 3 would be the same as the next line.
- 4 A. It would be, but it wouldn't change what I've written
- 5 here, which is what happens if the tank room alone is
- 6 flooded.
- 7 Q. I understand. And would your answer be the same in
- 8 relation to the 1.046 under "With watertight door" in
- 9 2005? Your answer would be the same, I suppose?
- A. It would, yes. 10
- 11 Q. Thank you.
- 12 I'm going to move on to your next report, but before
- 13 I do that, there is a point which is relevant also from
- 14 page 929 of this bundle. Can I ask you to have a quick
- look at that. 15
- 16 A. Yes.
- 17 Q. It's the table headed "Engine room and tank room 18 flooded"; do you see that?
- 19 A. Yes.
- 20 Q. I think you say the last line that is under "2005", "No
- watertight door", "Vessel sinks", I think your view is 21
- that line approximates the situation which obtained at 22
- the time of the incident on 1 October 2012. 23
- A. Yes, correct.
- Q. Right. Under that condition, with the raised ballast,

2 A. Could you repeat the question, please?

- 3 Q. Yes. The question is so far as the loss of Lamma IV is

there were or were not the ballasts being added?

- 4 concerned -- because you used the words "major 5
 - contributing factors". You're talking about the
- 6 ballast?
- 7 A. Yes.
 - Q. So my understanding is that you seem to be saying that
- 9 with the ballast --
- THE CHAIRMAN: It's ballast and other items, is it not? 10
- MR MOK: Yes, ballast and other items. 11
- 12 THE CHAIRMAN: Because it's about 15 tonnes, and ballast is 13
 - only 8.25.
- 14 MR MOK: Correct. It's an addition of weight. Perhaps
- I can use the term "addition of weight over the years". 15
- 16
- 17 Q. That was a major contributing factor in the sense
- 18 without that additional weight, perhaps Lamma IV would
- not have been lost. Is that the implication? 19
- 20 A. The implication is more that the calculations were not
- redone and, more importantly, not redone correctly, 21
- 22 because the fact there was no watertight door there was
- 23 not recognised. So if this addition had been noted and
- 24 the calculations redone, somebody would have noticed
 - that the margin line was immersed and furthermore,

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Page 16

- 1 the vessel would sink?
- 2 A. Correct.
- 3 Q. If you look at the second line of this table, under
- "1996", with "No watertight door", under that condition 4
- 5 the vessel would also sink; correct?
- A. Correct. With no watertight door, yes. 6
- Q. So would it be correct to say that with or without the 7
- 8 ballast, or with or without the ballast being raised,
- 9 under the condition of the engine room and tank room
- 10 flooded with no watertight door, the vessel would sink
- 11 all the same?
- 12 A. Yes, it would. There is no buoyancy in the after part of the vessel at all in any of those conditions. 13
- Q. Right. So with that in mind, can I invite you to look 14
- at your part 2 report, please, at page 1644. Under 15
- 16 paragraph A-18, what you have stated there is: "One of the major contributing factors in the loss 17
- of Lamma IV was the increase in the weight of the vessel 18
- 19 (lightship) by over 30% some years after the watertight 20 subdivision had been calculated (by the addition of
- ballast and fendering and other items), resulting in 21
- 22 a substantial decrease in freeboard to the margin line
- 23 and which was not recognised."
- Are you saying there, Dr Armstrong, that it would 24
- 25 make a difference to the loss of Lamma IV whether or not 25

- 1 without the door, it sank.
- 2 Q. So this is how we should understand this paragraph,
- 3 right? In other words, we should not understand it in
- 4 the sense that without the addition of weight, the ship
- 5 would not have been lost? That's not the way we should
- 6 understand this paragraph?
- A. Correct, yes. 7
- 8 Q. Right. Thank you.
 - Going to the next issue. These are minor issues.
- 10 Going back to page 1643, please. In the top paragraph on that page, I think you made this suggestion: 11
 - "The drawing approval and the survey should ideally be done by the same persons ..."
- 14 A. I did, yes.
- 15 Q. I think one possible consideration, and I'm putting this
- 16 forward for your consideration, is that one advantage of
- having different people or different sets of people 17
- 18 dealing with the same vessel is to reduce the
- 19 opportunities for corruption or, you know,
- 20 under-the-table dealings between particular officers and
- 21 the builder. So one of the considerations may be that
- 22 if you spread the handling of a particular vessel among
- 23 different groups of people or different persons, it may
 - reduce that opportunity. Do you agree that to be one of
- the valid considerations?

- A. It's a little outside my experience, Mr Mok, but 1
- 2 I understand and perhaps could agree with what you're 3 saving, ves.
- 4 Q. Yes. So would a viable alternative to insisting on the
- 5 same group of people dealing with both the approval and
- the inspection be to just shape up the paperwork process 6
- 7 so that there would be no missing records of key matters
- 8 being dealt with during the approval and survey of this
- 9
- 10 A. I would have to agree that multiple people could be used if the communication between them was seen to be very 11
- 12
- 13 Q. Right. Thank you. The next matter I would like your
- 14 input on, which is really to explore with you, is on
- 15 page 1651. I think in this whole section, from A-43
- 16 onwards, you are dealing with basically the drafting of
 - annex F of the code of practice.
- 18 A. Yes.

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- Q. One of the points you made is that there is no clear 19
- 20 reference to watertight subdivisions or floodable length
- 21 calculation.
- 22 A. None that I could find, no.
- Q. Yes. But you do note in paragraph A-45 that there is 23
- 24 a requirement for the submission of estimated damage
- stability information at an early stage? 25

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- 1 but they are different.
- 2 Q. If I may summarise what you are saying. What you are 3
 - saying is that the calculation of the margin line will
- 4 give you the information concerning the stability of the
- 5 vessel when it is either tilted at the bow or at the
- 6 stern?
- 7 A. I wouldn't have used the word "stability" because it's
 - got nothing to do with coming back upright.
- 9

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- 10 A. It's a question of whether it's going to submerge the 11 margin line, sink the ship.
- 12 O. Yes.
- 13 A. It has nothing to do with stability, which is the energy
- 14 available to bring the vessel back again.
- 15 Q. Right. Without using "stability", but it does give you the information of whether or not the margin line would 16
- 17 be submerged in the sense of making the vessel either
- 18 tilt forward or backward?
- 19 A. Yes, they both relate to the same margin line, just in 20
 - different locations.
- 21 Q. Would that information then assist the builder and the
- 22 Marine Department in determining whether or not the
- 23 watertight subdivisions were correctly being proposed?
- 24 A. I don't believe so, Mr Mok. I tried to make the point
 - a little later on that you can have very good damage

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Page 20

- 1 A. Yes.
- 2 Q. And that would include, I think, from the code of
- 3 practice, a calculation of the margin line. Would you
- 4 like to have a look at that?
- 5 A. I don't think that's necessary. I believe that's the 6
- 7 Q. Yes. Would that help to give sufficient information so
- 8 far as the permissible subdivision or proper
- 9 subdivisions are concerned, with this particular
- 10 calculation?
- 11 A. There is a difference, Mr Mok, that damage stability is
- 12 largely about the vessel heeling to one side. Yes, the 13 margin line is a criteria with damage stability, but
- 14 with the vessel heeled over, that's the margin line
- 15 being immersed at the side of the ship, with the vessel 16
- 17
- In the regulation, it defines damage stability as 18 being with the vessel upright. Level trim. And margin
- 19 line immersion in that case is usually at the bow or at
- 20 the stern, rather than at the side of the ship. Or it
- can be, in severe cases, at the middle of the ship, if 21
- 22 there is a lot of what we call shear. In other words, 23 the boat looks like a banana, so the middle of the deck
- 24 is lower than anywhere else. But the vessel is upright
- 25 and not heeled to one side, so they are similar criteria

- 1 stability, and I believe Lamma IV did have adequate 2 damage stability, even though it was sinking.
- 3 So the fact that you can have very good damage
- 4 stability by lots of ballast -- as we saw on Lamma IV, 5 more ballast was added, the damage stability improved,
- 6 but unfortunately the watertight subdivision capability
- 7 decreased. So the fact that one can increase when the
- 8 other decreases suggests to me that the two are not that
- 9 clearly related. You can't make conclusions about one
- 10 from the behaviour of the other.
- 11 Q. So other than the calculation of the margin line and 12 whether or not it is submerged in a particular way, what
- 13 other information or calculation should be done at the 14
 - early stage before the ship is built?
- A. One of the first things a naval architect would want to 15
- 16 do is to decide on his length, breadth, depth, the 17 principal size of the vessel, and then to think about
- 18 where to put the bulkheads, which is strictly
- 19 a watertight subdivision and immersing the margin line.
- 20 Because out of that will come information which will
- 21 allow the designer to maybe change the beam of the boat,
- 22 make it wider, or to increase the depth, and most
- 23 specifically the depth, because the depth gives you
- 24 what's called the freeboard, which is the distance from 25 the deck down to the water, which is of course directly

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- related to the distance from the margin line down to the 1 2
- 3 Once he has that information together, then he would 4 go on to further design the ship to then give him some
- 5 information on the heights of the weight of the ship,
- which would then allow him to look at the stability. 6
- 7 Because an important factor here is that the location of
- 8 the weight of the ship -- that is, the centre of
- 9 gravity -- vertically and longitudinally does not affect
- 10 watertight subdivision. But it is a vital and important
- input into the intact and the damage stability. 11
- 12 Q. So what you're saying is that if annex F is to be
- 13 redrafted in any way, you would like to drafter to take
- into consideration these remarks that you have made 14
- here, and also that you have just made now? 15
- 16 A. Based on the unfortunate experience on Lamma IV, I think
- 17 it's essential that it's done.
- 18 Q. Yes. Thank you. One short question about the seats.
- 19 You have dealt with the seats on page 1653. You say in 20 paragraph A-57:
- 21 "Seats were poorly attached to the deck of composite
- 22 sandwich construction on Lamma IV, and became loose over 23 time."
- 24 Then you have some suggestion there as to how this 25 could be improved.

Page 22

- 1 A. Yes.
- 2 Q. One question I have is this. Do local vessels in other
- 3 jurisdictions, maybe such as the UK or Australia, permit
- portable seats to be used in local vessels? 4
- 5 A. I don't know, Mr Mok. I know in Australia that that is
- 6 not permitted, and there is a requirement for all seats
 - to be rigidly attached.
- 8 Q. Right.

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- 9 A. But a portable seat can be rigidly attached, which is
- 10 the reason I'm looking a little unsure. Portable seats,
- 11 in my understanding, are seats that can be moved but
- 12 they still have to be rigidly attached to the deck.
- Q. That's actually the question I was going to ask you. If 13
- there were going to be portable seats, how would those 14 15 seats be securely attached?
- 16 A. I have seen seats with a chain from the middle of the
- 17 seat down to the deck with a turnbuckle. But I don't
- know if that is acceptable or not. 18
- 19 Q. You have not gone into that particular matter?
- 20 A. No.
- 21 Q. One final matter. You remember in relation to the aft
- 22 peak bulkhead, you had some observation that its
- distance should be about or less than 0.1L from the 23
- 24 stern, or from the rudder stock?
- 25 A. Yes, sir.

- Q. But I have noticed that you have made no recommendation
 - 2 in this regard in your part 2 report. Should there be
 - 3 some recommendation in this regard, if it is so
 - 4 important?
 - 5 A. I think that's an astute observation, Mr Mok. Yes,
 - perhaps there should be some clarification. 6
 - 7 Q. What should that recommendation be, if there be
 - a recommendation?
 - A. I would need to consider that a little further. I would
 - 10 not be wanting to state numbers.
 - 11 Q. Right.

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- 12 A. I think it should be clear that the aft peak bulkhead is
- 13 in the after part of the vessel, with a volume behind it
- 14 of moderate capacity or minimum capacity or something
- 15 like that.
- 16 Q. So in some general terms?
- 17 A. In some general terms.
- 18 Q. But you would not, for example, stipulate a distance or
- 19 location comparable to that which is required for the
- 20 collision bulkhead?
- 21 A. No. sir. I would not.
- 22 Q. So you would not use, for example, the 0.1L as being the
- 23 guideline for this purpose?
- 24 A. No, I would not suggest a particular figure. The
 - collision bulkhead location is quite specific, between

Page 24

- 1 5 and 7.5, or whatever classification society or SOLAS 2
 - you are looking at. But close to those figures.
- 3 Q. Right.

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- A. And that has come from very many years of experience
 - where vessels have been in collisions, and it's been
- 6 found to be an ideal location for the collision
- 7 bulkhead. So there is solid evidence behind that
- 8 location, but I think less so in the terms of aft peak,
- 9 mainly because there are so many different aft peak
- 10 designs.
- Q. Right. 11
- 12 A. Ocean-going ships tend to come to a narrow point at the
- after end, whereas Lamma IV was a very wide transom. 13
- 14 Q. And very many different types of vessels?
- A. Indeed. Many different types of propulsion too. 15
- 16 Q. Indeed. So in short, would it be fair to say if indeed
 - there should be some guideline as to the location of the
- 18 aft peak bulkhead, there should be sufficient
- 19 flexibility to be given to the authority --
- 20 A. Always very important in any legislation, yes.
- Q. Yes. In particular in this respect. 21
- 22 A. I think it's in SOLAS, it does actually say "unusual
- 23 arrangements shall be especially considered".
- Q. I'm talking about more specific guidelines as to the 24 25 location.

Page 25 A. It says that about the aft peak bulkhead in SOLAS, 2 I think. 3 MR MOK: Right. Thank you very much, Dr Armstrong. 4 A. Thank you. 5 MR MOK: Those are my questions. THE CHAIRMAN: Thank you, Mr Mok. 7 Mr Beresford? 8 Further examination by MR BERESFORD 9 MR BERESFORD: Dr Armstrong, you were referred to legislation bundle 2, tab 11, Cap 369AM and in 10 particular to regulation 7(4) and 7(5) on page 8. 11 12 A. Yes. 13 Q. I believe you've prepared a diagram to illustrate paragraph (5) in particular. 14 15 A. I did, yes. Q. This has been paginated at page 1742-30. 16 You were shown some other standards relating to 17 18 ocean-going ships yesterday. A. I was, yes. 19 20 Q. In particular the DNV and the German classification societies. Do they derive from SOLAS? 21 22 A. They are, I believe, very similar to SOLAS and no doubt derive in some way, with some modifications perhaps, to 23 24 SOLAS, yes. Q. What about this section here? 25

The stern gland is marked in the aft peak bulkhead. It's the main watertight mechanism to stop water leaking around the shaft. The regulation says it shall be "situated in a watertight shaft tunnel", and you can see that in the diagram. It's marked "watertight shaft tunnel". This is a watertight space. As the regulation says, it should be of such volume that if the tunnel or space is flooded, the margin line will not be submerged.

It's called a tunnel because if the engine is a long way forward in the vessel, that watertight shaft space can become very long and rather tunnel-like, but here it's just shown as a rectangular box.

The regulation states that the stern tube, which is the structural tube carrying the shafting and containing bearings for the shafting, is in a separate compartment which shall also be watertight, and you can see that's aft of the aft peak bulkhead, the shaft tunnel being forward of it.

The space behind the aft peak bulkhead is commonly called the aft peak tank because it is a rather useless space full of a lot of structure, so it is quite often used as a ballast tank.

Q. So in this drawing, is the aft peak tank the stern tubecompartment?

25 A. It is.

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Page 28

- 1 A. This particular drawing was --
- 2 Q. No, I'm just talking about our legislation.
- 3 A. Oh, this section of the rules? This is word for word,4 I believe, in line with SOLAS.
- 5 Q. This derives from SOLAS?
- 6 A. Yes.
- 7 Q. Right. Your diagram. Could you just walk us through
- 8 that, please. I think it primarily relates, does not,
- 9 to subsection (5) of regulation 7?
- 10 A. It does, yes. The diagram is meant to represent the great majority of ocean-going ships that are operating
- at the present time and around which the SOLAS
- regulations are focused. This is a section through the
- vessel with the deck at the top. The main engine should
- be obvious on the right. It's driving a shaft running
- to the left of the diagram, with a propeller. And
- behind that, a rudder.
- In this particular case, there is an aft peak
- bulkhead which is stepped but may not be necessarily
- stepped. It is marked as "aft peak bulkhead".
- Q. So the dotted line indicates where it would go if itwere not stepped; is that right?
- 23 A. Correct. I might come back to that, Mr Beresford.
- The stern tube, which is referred to in paragraph
- 25 (5) -- let me first of all talk about the stern gland.

Could you just bear with me, Mr Beresford. Just reading the regulation.

The final part says:

"The stern tube shall be enclosed in a watertight compartment, the volume of which shall be the smallest compatible with the proper design of the ship."

If I can go back to the diagram. The aft peak tank, which contains the stern tube, is then under this regulation required to have a volume which is the smallest compatible with the proper design of the ship.

It can be a very difficult space. It's full of structure and really has little use, as I said, other than to provide a watertight boundary.

Just going back to the aft peak bulkhead, it could of course go straight up, but that would make a rather large steering gear compartment or a rather useless space. Sometimes on ships the space between the steering gear compartment and the aft peak bulkhead, if it did go straight up, is used for a freshwater tank. But here I've just shown it being stepped and part of the engine room.

This arrangement is very different to what we had on Lamma IV where the shafting went through the after end of the engine room and down below through the bottom of the vessel. But it did have a stern tube and a stern near Lamma Island on 1 October 2012 Page 29 Page 31 1 If I might go back to page 5095. 1 gland, and that would fall under the provision of -- in "After peak bulkhead. 2 different designs, of course, the authorities have the 2 3 A term applied to the first transverse bulkhead 3 capability to accept a different arrangement. 4 If I might refer to the three pieces of information 4 forward of the stern post. This bulkhead forms the 5 put forward yesterday. Page 5089 -- I think it was 5 forward boundary of the after peak tank and should be made watertight." 6 marine bundle 13, Mr Beresford? 6 7 Q. Yes. Page 5089 is the DNV structural arrangement 7 You'll note above it says the aft peak is the 8 section. 8 compartment just forward of the stern post. The term 9 9 "just forward" suggests to me that the after peak A. It was, for oil tankers with a length of 150 metres and 10 bulkhead should be considered as just forward of the 10 above. 11 stern post. 11 Q. Yes. That appears from page 5088. 12 A. Yes. Paragraph 2.3.1.1 requires: 12 Q. Can we just pause for a moment, please, and look at 13 "An aft peak bulkhead, enclosing the stern tube and 13 a plan of the Lamma IV. Tell me if you wish to refer to a different one, 14 rudder trunk in a watertight compartment ..." 14 Dr Armstrong, but perhaps the General Arrangement would 15 And my diagram shows that. 15 It then goes on to say: 16 be the simplest for this purpose. 16 A. Ideal, yes. 17 "Where the shafting arrangements make enclosure of 17 18 the stern tube in a watertight compartment 18 Q. If we look at the profile, where is the stern post on 19 Lamma IV? 19 impractical" -- which would be a situation similar to 20 Lamma IV, for example, not that Lamma IV was an oil 20 A. It does not have a stern post. 21 tanker -- "alternative arrangements will be specially 21 Q. It doesn't have a stern post? 22 A. No. The vessel has a transom. 22 considered." 23 Q. Going back to the definitions we were just looking at at 23 If I might then refer to page 5091, which is the 24 page 5095, it says: 24 Germanischer Lloyd regulation for inland navigation 25 "After peak bulkhead. 25 vessels. In paragraph 6.2, it states:

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1 "The after peak bulkhead is to enclose the stern tube and the rudder trunk in a watertight compartment.' 2 3 That was the case in my diagram. It then also 4 permits other measures to be taken, such as may be 5 necessary with a twin-screw craft. Q. Can we go back to the Germanischer Lloyd. 6

A. If I might finally refer to the third documentation that was submitted yesterday, on page 5095, it defines on after peak" and "after peak bulkhead", and I'm obliged to Mr Mok for providing this. It says:

"After peak.

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12 A compartment just forward of the stern post." I will explain "stern post" shortly. 13

"It is generally almost entirely below the load waterline."

"Just forward of the stern post"; if we can go back to my diagram, please. The stern post, although not shown here, is that piece of structure that is S-shaped. It's a reverse "S" in this diagram, at the after end of aft peak tank, shown just forward of the propeller.

It runs from the bottom end of the aft peak bulkhead and then up in a curve -- correct -- and then keeps going, and around. That usually referred to as the stern post. It is usually a cast piece of structure which I have not shown there.

A term applied to the first transverse bulkhead forward of the stern post. This bulkhead forms the forward boundary of the after peak tank and should be made watertight."

So where would you place that on Lamma IV, if there 6 is no stern post?

A. I think where it is located at the present time is 7 8 an excellent location, Mr Beresford.

9 O. And that's frame 1/2, is it?

10 A. At frame 1/2. It provides just sufficient space for the 11 steering gear mechanism.

12 Q. The reason I ask is because the origin of this issue was 13 Mr Wong Chi-kin's evidence on Day 17, page 11, line 3, 14 where he said:

15 "... I understand, the engine room after bulkhead 16 can be considered as the peak bulkhead."

17 A. Yes, I recall that.

18 Q. Is that consistent with the definition we've just looked 19

20 A. No, sir, I do not agree that that can be considered the 21 aft peak bulkhead.

Q. Just going back to the General Arrangement plan and in particular the profile. We can see the propeller tube going through the hull in the engine room; is that right?

Page 33 Page 35 A. Correct. 1 1 from leakage. 2 Q. So I'm not sure if there's any suggestion that the 2 Q. Hence the rules and regulations relating to the rudder 3 bulkhead at frame 9 could be an after peak bulkhead? 3 stock and the stern gland? 4 A. Presumably not. 4 A. Correct. Q. You wouldn't agree that it could? 5 5 Q. My learned friend also asked you in relation to the A. No. I would not. 6 watertight bulkhead and the 0.1L rule whether the 7 Q. Did you have anything more you wanted to say about the question of whether or not the transom was a bulkhead 7 8 drawing provided? 8 was a matter of interpretation. He did not identify any 9 A. No. Thank you very much. 9 other alternatives, and in particular whether it was 10 10 Q. No. Thank you, Dr Armstrong. a matter of practice. As you put it in your report, as So just in relation to the aft peak bulkhead, it 11 11 one skilled in the art of naval architecture, what is 12 seems to me that we have to consider it in three periods 12 the practice of naval architects, as far as you are aware? Is the transom regarded as a main transverse 13 of time. There's the time that pertained in 1995, and 13 14 the definitions in the Blue Book, possibly the 1995 14 bulkhead? 15 Instructions; the present time, under the code of 15 A. I cannot speak for other naval architects, practice, 2006; and the future, as my learned friend unfortunately, because I do not know the answer to that. 16 16 17 17 Mr Mok just asked you. But in my experience, from all I have done -- in the 18 In relation to the time pertaining when Lamma IV was 18 last few years most of what I have been doing, 19 built, in 1995, Mr Wong Chi-kin said in his evidence Mr Beresford, is catamarans. So they tend to be greater 19 20 that he had actually regarded the aft peak bulkhead as 20 than 0.1L. But the monohulls that I have done, and some 21 being the one at frame 1/2. But then he also, as we've 21 of the patrol boats, also fell outside the 0.1L so would 22 just seen, said that the engine room after bulkhead 22 not have created a problem. could be considered as the peak bulkhead, although that 23 23 Q. I'm not asking about 0.1L; I'm asking about the question 24 appears to have been an ex-post rationalisation. 24 of whether a transom can be a bulkhead. They're inconsistent. Which, in your view, is correct? 25 A. Oh. Transom cannot be a bulkhead, no, sir. 25 Page 34 Page 36 1 A. The frame 1/2 is the only consideration I would have of 1 Q. Can you answer that as a matter of practice, or is that just your interpretation of the rule? What is the 2 the aft peak bulkhead. 2 3 3 Q. Yes. Then the present situation under the code of general practice of naval architects? practice, that seems to be clear, that the aft peak 4 A. A transom is not a bulkhead. It's like trying to say 4 5 bulkhead is required to be watertight and would be 5 a deck is a bulkhead. They serve a similar purpose, to 6 positioned at frame 1/2; is that right? keep the water out, but they're not the same at all. 6 Q. If hypothetically the tank room or a void space was less 7 A. I believe so, yes. 7 8 Q. My learned friend asked you what your recommendation 8 than 0.1L -- can you just suppose the hypothesis for 9 would be for the future, and of course I appreciate that a moment? 10 you would want to consider that, not having included 10 A. Yes. 11 that in your report. But is it fair to say that there 11 Q. Which bulkhead should be regarded as forming part of the 12 are two considerations, at least. One of the 12 subdivision of the ship, for the purpose of considerations derives from the 0.1L and watertight paragraph 6(6)? 13 13 14 subdivision, in other words the risk of collision and 14 A. Yes, it's an interesting question. It says "one of the bulkheads shall be ignored". I'm not sure whether that 15 the possibility of a hole on the bulkhead that may 15 16 affect two compartments, but the other is simply to have 16 is up to the discretion of the designer. I believe it some buoyancy at one end of the boat, isn't it? 17 is, but I'm not 100 per cent certain. It's not 17 18 18 A. Yes. Which is covered by the requirement to have an aft an uncommon occurrence, because many vessels have what 19 peak bulkhead. 19 are calls cofferdams. If, for example, you have 20 Q. Was that the rationale in 1995? 20 an engine room and you want to put the passenger space

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next to it, it's normally not allowed for fire reasons.

called a cofferdam. So there is a void there, and

So you would make a void space between them, which is

thereby you're not conflicting with the regulations that

say an engine shall not be next to a passenger space.

A. I believe it was.

A. I believe it was.

Q. And is that the rationale in 2006?

24 O. And is that a valid rationale for the future?

A. I believe so. As well as some protection from flooding

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Page 40

Page 37 A. Correct. Sorry, did you say "not attached"? 1 And there are other examples such as fuel tanks next to Q. The fact that is seat is described as "portable" does 2 engine rooms, which is quite common. 3 not imply that it is not attached? 3 In that case, of course, the cofferdam, which is 4 surrounded by watertight bulkheads, perhaps only 1 or A. Correct, yes. Thank you. 2 metres apart, would conflict with the 0.1L. In that 5

case. I believe the designer would choose one of those 6 7 as being what is called a non-conforming watertight

8 bulkhead.

9 Q. Would that choice be made for all purposes?

A. It would be made for all purposes and it would be marked 10 as "non-conforming watertight bulkhead" on the plans, 11

including on the GA. 12 13

Q. Thank you. Now, my learned friend asked you some questions about floodable length. In particular, he

asked you if the stability calculations would enable you

to see if the margin line would be submerged by making 16 17

the vessel tilt forward or backward.

18 A. Yes.

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19 Q. My understanding of your evidence is that the stability

20 calculations were concerned with transverse stability,

not fore and aft stability? 21

22 A. Correct.

23 Q. So which is correct?

24 A. I'm unsure of your two options, I'm sorry. The first one was about longitudinal stability, but I argued it 25

MR BERESFORD: Thank you very much, Dr Armstrong. I have no

6 further questions.

A. Thank you.

THE CHAIRMAN: Thank you, Dr Armstrong, for assisting us in

9 so many different areas. Your evidence is now complete,

10 and may we wish you a safe return journey. Thank you

for all your help. 11

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12 A. Thank you very much, sir. Thank you.

(The witness withdrew)

THE CHAIRMAN: Yes, Mr Beresford.

15 MR BERESFORD: Mr Chairman, I believe now it just remains

16 for some miscellaneous matters to be tidied up. In

17 particular there's Mr Lee Kwok-keung's statement.

18 THE CHAIRMAN: We don't regard him as miscellaneous,

19 Mr Beresford.

20 MR BERESFORD: I don't wish to diminish the importance of

21 Mr Lee in any way.

22 THE CHAIRMAN: No. We regard his evidence as of some

23 significance.

24 MR BERESFORD: Perhaps the best way to deal with it would be

to call him, for me to read his statement, and then if

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1 was not about longitudinal stability because there was

no righting moment trying to bring the vessel back

3 upright.

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Q. So this question of tilting forward or backward doesn't 4 5

really arise, does it, in relation to the stability

6 calculations?

7 A. Correct.

8 Q. Then finally, my learned friend referred you to the 9 question of portable seats. There was some question as

10 to whether a portable seat might be attached or not.

11 There was an exhibit, WCK-4, to Mr Wong Chi-kin's 12 statement, which is in marine bundle 11 and begins at

13 page 3912. 14

This is something from the Department for Transport.

In fact, to give it its accurate description, it is

16 "Department for Transport, Instructions for the Guidance of Surveyors, MSIS 4 chapter 12 ". 17

18 If we can turn to page 3915, paragraph 12.2.6.1, we 19 see there reference to:

20 "Seating either fixed or portable having attachment 21 either to the deck or a bulkhead ..."

22 A. Yes.

23 O. So does that conform to your understanding that 24

reference to a portable seat does not imply that it's

25 not attached? 1 anybody has any questions, they can be put.

THE CHAIRMAN: Yes, I think that's the way to proceed. 2

3 MR BERESFORD: In that case, I call Mr Lee Kwok-keung.

MR LEE KWOK-KEUNG (sworn)

Examination by MR BERESFORD

MR BERESFORD: Good morning, Mr Lee. Thank you very much

for coming this morning to assist the Commission in its

8 Inquiry.

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9 Mr Lee, you've made a statement dated 6 March 2013,

10 which may be found in our miscellaneous bundle at

page 185. Do you have a copy of that statement in front 11

12 of you?

13 A. Yes, I have.

Q. Do you recognise your name and signature at page 191?

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16 Q. Have you had an opportunity to remind yourself of the

content of this statement today?

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Q. Is there any amendment or addition you would like to 19

20 make?

21 A. No.

22 Q. So are the contents of this statement true?

23 A. Yes.

Q. Thank you. The exhibit you refer to is at page 193, 24

25 marked appendix 1.

Page 41 Page 43 A. Yes. 1 Watchkeeping of Seafarers 95 ('STCW Convention 95'). 1 2 Hong Kong is one of the 133 countries or areas that have 2 Q. Mr Lee, I'm going to read through your statement. If there's anything that you hear that is inaccurate or 3 given full and complete effect to the provisions of the 3 4 incorrect, or that you'd like to modify, please stop me 4 STCW Convention 95. 5 and let me know. 5 5. By working on a 24-hour shift, the working hours of sea crew of vessels of HKKF and First Ferry might not 6 A. Yes. 6 7 Q. "I am the chairman of Hong Kong & Kowloon Trades Union 7 have breached the Employment Ordinance, but such working 8 Council, and I am duly authorised by HKKTUC to make this 8 hours might have breached section 4 of the Merchant 9 statement on its behalf to provide our views and 9 Shipping (Seafarers)(Hours of Work) Regulation 10 observations to the Commission of Commission of Inquiry 10 (Cap 478D), had such regulation been applicable to them." into the Collision of Vessels near Lamma Island on 11 11 12 1 October 2012. 12 Just pausing there, Mr Lee. On the question of 13 A. Hours of work of seafarers. 13 application, I should perhaps read out section 3 of Cap 478, which says --14 2. The working hours of sea crew in Hong Kong 14 waters and river trade vessels is different, as THE CHAIRMAN: Do we have that legislation? 15 15 16 different legislations apply to seafarers of different MR BERESFORD: It's not in our bundle, though I understand 17 vessels: According to section 4 of Employment Ordinance we might be about to receive copies. Cap 478, 17 18 (Cap 57), Employment Ordinance is applicable to 18 section 3. 19 seafarers of Hong Kong waters vessels. New World First 19 THE CHAIRMAN: I think we can find it on an internet site and put it up so that it can be followed. 20 Ferry Services Ltd, the Star Ferry Company Ltd and the 20 Hong Kong & Kowloon Ferry Holdings Ltd all apply the MR BERESFORD: Now we have section 3 on the screen. This 21 21 Employment Ordinance, whereas Shun Tak-China Travel 22 22 provides: Macau Ferries Ltd applies the Merchant Shipping 23 23 "This Ordinance shall not apply to --24 24 (Seafarers) Ordinance (Cap 478). (a) any ship of war ... 25 3. In the present case, Sea Smooth's seafarers have 25 (b) any vessel required to be certificated under the Page 42 Page 44 1 1 to work on a 24-hour shift." Merchant Shipping (Local Vessels) Ordinance (Cap 548) 2 You've given us a reference there to paragraph 6 of 2 except [certain immaterial exceptions]." 3 3 Lai Sai-ming's statement and his evidence, and So essentially the scheme, Mr Lee, is that Cap 478 paragraph 9 of Lo Pui-kay's statement and his evidence. 4 applies to vessels that go outside of Hong Kong waters, 4 5 "For the sake of comparison, I set out below the 5 but local vessels are governed by the Employment 6 work hours of other ferry companies in Hong Kong: 6 Ordinance; is that right? 7 (a) Seafarers of First Ferry also work on a 24-hour A. Yes. As I see, I understand this way also. I share the 7 8 8 shift. same view. 9 (b) The coxswain, assistant coxswain and engineer of 9 Q. Then if we can quickly look at Cap 478D, the Merchant Star Ferry work 8 hours per day, whilst deckhand works 10 10 Shipping (Seafarers)(Hours of Work) Regulation, 11 to 14 hours per day. Star Ferry provides 1-hour meal 11 11 section 4(1) provides: 12 break to sea crew. 12 "Subject to section 6, a seafarer employed on a ship 13 (c) Shun Tak-China Travel's seafarers work a maximum 13 as officer in charge of a watch or as a rating forming 14 of 11 hours per day, with minimum 11 hours of rest 14 part of a watch shall be provided a minimum of 10 hours 15 between two working days, and have 45 minutes' meal 15 of rest in any 24-hour period." 16 16 Section 6 provides for certain exemptions: 4. The Merchant Shipping (Seafarers) (Hours of 17 "Notwithstanding section 4, a seafarer may 17 Work) Regulation (Cap 478D), the subsidiary regulation 18 18 participate in a navigational, engine room or machinery of the Merchant Shipping (Seafarers) Ordinance (Cap 19 19 watch although he has not had the rest periods specified 20 478), stipulates that, subject to section 6 of the same 20 in section 4(1) in the following circumstances and 21 Regulation, seafarers employed on a ship as officer in 21 during the 24 hours immediately thereafter --22 charge of a watch or as a rating forming part of a watch 22 (a) when the ship is engaged in an emergency 23 23 shall be provided a minimum of 10 hours of rest in any operation or emergency drill, including rescue, salvage, 24-hour period. This is in line with the International 24 24 towage, wreck location, buoyage operations, oil

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pollution, fire-fighting or public health duties; and

Convention on Standards of Training, Certification and

Page 45 Page 47 1 1 (b) during the existence of an emergency threatening he wishes to take the four whole rest days, but then he 2 the safety of the ship or the life of any person." 2 or she may be forced to work. If he refuses to work on 3 3 the rest days, then he will face lay-off or something. So those are the regulations applicable to seafarers 4 who go to Macau and mainland China, but they don't apply 4 THE CHAIRMAN: We have no evidence about that. 5 to local vessels under the Employment Ordinance? 5 A. Yes. Yes, I agree, but that is based on the contract of 6 A. Yes. 6 them, between them, whether -- he has the choice whether 7 7 he'd like to take the four rest days or not. Q. Then you go on to say: 8 "Mr Ng Siu-yuen of HKKF mentioned that HKKF offered 8 THE CHAIRMAN: We have your point. Thank you. 9 Sunday off, but their counterparts in the trade do not. A. Thank you. 10 Hence, HKKF had to 'buy leave' from sea crew (ie they THE CHAIRMAN: Yes, Mr Beresford. 10 had two days less of holidays per month) to alleviate MR BERESFORD: Mr Lee, you then turn to deal with the issue 11 11 12 12 the problem of staff shortage. Though no evidence was of "Number of sea crew on board vessels". You say: 13 given that HKKF signed contract with the crew of Sea 13 "7. In the present case, the number of crew members 14 Smooth to 'buy leave' from them, the Commission is on board Sea Smooth on 1 October 2012 was 4, viz 14 15 reminded that, according to section 70 of the Employment 15 1 coxswain, 1 engineer and 2 deckhands. According to my 16 Ordinance, any term of an employment contract which 16 research, other ferry companies have more crew on board 17 17 extinguishes or reduces any right, benefit or protection 18 conferred upon the employee by the Employment Ordinance 18 (a) Star Ferry: Has 6 to 7 crew members on board its 19 19 shall be void. Employees do not welcome the buying of vessels, with 6 crew members (1 coxswain, 1 assistant 20 leave or rest days, because it deprives the employees' 20 coxswain, 1 engineer and 2 to 3 deckhands) on upper deck 21 21 rest period, and reduces their family time." and 1 deckhand on lower deck. 22 THE CHAIRMAN: Dealing with that issue, Mr Lee. As (b) First Ferry: Has 4 to 8 crew members on board 22 its vessels, including coxswain, assistant coxswain, I understood the evidence from Hong Kong & Kowloon 23 23 24 24 Ferry, the employees involved were free to choose engineer, assistant engineer and deckhand. 25 whether or not to accept this offer to work an extra day 25 (c) Both Star Ferry and First Ferry maintain Page 46 Page 48 1 1 or not. So it was entirely up to them. 1 coxswain and 1 assistant coxswain in the wheelhouse of 2 A. Yes, Mr Chairman. Of course I think this Ordinance, the 2 their vessels, with the assistant coxswain performing 3 3 Employment Ordinance, this certain section is dealing in the duty of look-out." 4 terms of is it on a voluntary basis or not? Of course THE CHAIRMAN: As far as First Ferry is concerned, Mr Lee, 5 5 both parties have entered into an agreement before do you know whether there is any logic to a variation in the crew numbers from four to double, at eight? 6 employment. But it seems that there is some possibility 6 7 that the employee may be not willing to be taking away A. Yes, I have asked the operational manager of First 8 two rest days. 8 Ferry, and he told me that they will act according to 9 THE CHAIRMAN: Yes. Then he says "no", doesn't he, "I won't 9 the minimum requirement stipulated by the Marine 10 Department. Some smaller ferries, they may require work on Sunday"? 10 A. Yes, Mr Chairman. I think the point is that we have to 11 11 smaller manning. 12 see the employment contract. Because I myself have not 12 THE CHAIRMAN: Thank you. seen the contract. So it's I think based on the 13 13 A. Yes. contract, whether this is -- the employee has the choice 14 14 MR BERESFORD: So in the case of all these numbers, are they to choose not to be forced by working on only two rest 15 basically what is required by the Marine Department? 15 16 days per month. If he can --16 17 THE CHAIRMAN: I don't think it's been suggested in the 17 Q. In the case of all of these numbers that you have given, evidence that the employee must comply with the request. are they simply what is required by the Marine 18 18 19 That's why he's paid money to work. 19 Department as the minimum manning? 20 I think the tenor of the evidence is, he's asked to 20 A. Yes. I was told by the operators that, yes, they are 21 do it and if he's willing to do it, then he gives up his 21 all worked out according to the -- in line with the 22 leave day and he gets paid for it. So it's a voluntary 22 requirement of Mardep. 23 23 matter. That's as I understand the evidence. Q. Yes. A. Yes, Mr Chairman, but there may be some possibility that 24 You then turn to the issue of "Fatigue": 24 the employee may like to choose in certain months, then 25 "8. When asked whether there had been any complaint

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about coxswains being overworked and not having enough rest time, Mr Ng Siu-yuen of HKKF admitted that the coxswains of HKKF expressed to him that 'if they had more resting time in between (duties), then it will be better'. It means that the coxswains want more rest.

9. Professor Andy Smith, Centre for Occupational and Health Psychologist, Cardiff University ... wrote a report titled 'Adequate Crewing and Seafarers' Fatigue: ...' commissioned by the International Transport Workers' Federation ('ITF') ..."

This you've exhibited at appendix 1. It's quite a long report so obviously I'm not going to read the whole thing, but you've given us a quote. You say:

"Below is an extract from paragraph 5.1.1 of the said report, where Professor Andy Smith made reference to a report by ITF named 'ITF Seafarer Fatigue: Wake up to the dangers (1997)':

'this report, based on responses from 2,500 seafarers of 60 nationalities, serving under 63 flags, demonstrates the extent of excessive hours and fatigue within the industry. Almost two-thirds of the respondents stated that their working hours were more than 60 hours per week and 25% reporting working more than 80 hours a week (42% of master). It was clear, therefore, that on many ships working hours were in

11. The weekly working hours of drivers of Mass Transit Railway ('MTR') do not exceed 42 hours, and their daily working hours would not exceed 10 hours.

- 12. Both KMB and MTR have regular safety committee meetings with union representatives. For example, KMB held safety committee meetings with unions according to the location of the company plants.
- 13. Both KMB and MTR provide free yearly medical check-up for their drivers. KMB drivers must have medical check-up yearly when they are over 50 years of age, whereas MTR drivers over 45 years of age must have yearly medical check-up."

You then go on to address the issue of "Manpower Shortage and Training":

- "14. There is a serious problem of manpower shortage in the local vessels industry. According to a recent survey conducted by companies of local vessels (including Star Ferry), there is a shortage of about 80 seafarers in the local vessels industry.
- 15. Manpower shortage in the local vessels industry could be attributed to the unattractive salary paid to local vessels seafarers and their long working hours. On average, the salary of a deckhand of local vessels is around HK\$12,000 and they are required to work for about 312 hours per month (assuming that they work an average

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excess of the STCW 95 of ILO 180 (International Labour Convention No. 180) requirements. In addition, 36% of the sample were unable to regularly obtain 10 hours rest in every 24, and 18% regularly unable to obtain a minimum of 6 hours uninterrupted rest. Long periods of continuous watch-keeping were also reported, with 17% stating that their watch regularly exceeded 12 hours. Over half the sample (55%) considered that their working hours presented a danger to their personal health and safety. Indeed, nearly half the sample felt that their working hours presented a danger to safe operations on their vessel. Once again this was particularly prevalent in watch-keepers and also on ferries and offshore support vessels.""

Was there anything else in this exhibit that you wanted to draw our attention to, Mr Lee?

- A. No, not particularly.
- Q. No. Okay. Thank you. 18

You then go on to compare the situation with workers in the road traffic industry. You say:

"10. The working hours of drivers of buses of Kowloon Motor Bus Co (1933) Ltd ('KMB') do not exceed

14 hours per day, and their driving hours do not exceed

11 hours per day. KMB drivers have no less than minimum 24

24 25 of 10 hours of rest per day. of 78 hours per week). Coxswain of local vessels earns a salary of around HK\$15,000 on average.

16. Another reason for the manpower shortage in the local vessel industry has to do with the lack of training courses provided for seafarers of local vessels. Since 2007, there has been no new class for deckhand or new class for students who wish to further their career to become coxswain. The companies operating local vessels have repeatedly alerted Mardep in the last few years over the lack of provision of training courses.

17. The Government seems to pay more attention to providing training to seafarers of ocean-going vessels rather than seafarers of local vessels. In 2004, the Government established a 'seagoing training incentive scheme' with a funding of HK\$9 million. Under this scheme, a cadet will receive HK\$5,000 per month during the stipulated 'individual training period' which will qualify him/her to sit for the class III deck/engineer officer examination. The said financial incentive (HK\$5,000 per month) will be paid in arrears directly to the successful applicants by Mardep in lump sum upon the cadet's completion of his/her employment contract up to the maximum training period of 24 months. In the year 2010, the Government injected HK\$19.2 million more to

Page 53 Page 55 1 1 the scheme so that the scheme could be extended to 2014. look-out, (b) the masters of the vessels did not comply 2 2 The total funding for the scheme comes up to HK\$28.2 with the Collision Regulations. 3 million, but the local vessels industry does not receive 3 20. Besides the above incident, there are three 4 similar kind of financial assistance from the 4 further recent reports of investigation by MAIS 5 5 involving high-speed craft: Government." THE CHAIRMAN: Does the local vessel industry receive any 6 (a) At 08:30 on 26 June 2011, a passenger high-speed 6 7 financial assistance from the Government? 7 craft New Ferry VI departed from Macau to 8 A. For the local vessels, I think not. I haven't heard 8 Hong Kong-China Ferry Terminal. At 09:35, she collided 9 they have received any assistance from the Government. 9 with a triple-decker ferry Xin Guo near the Central But of course the courses held by the so-called Maritime 10 10 Buoy. Investigation by MAIS revealed that the chief Services Training Institute, they have already received master of NF and assistant master of Xin Guo did not 11 11 12 some assistance, financial assistance from the Education 12 maintain a proper look-out and did not act in accordance 13 Bureau. So, for example, if they have radar operation 13 with the Collision Regulations. 14 course for the local vessel seafarers, the students will 14 (b) On 13 February 2011, a high-speed craft operated 15 have to pay one-third of the total school fee. So there 15 by First Ferry New Ferry LXXXVI collided with a 16 is some kind of subsidy. But this kind of incentive transportation boat Pilot 2. The master and coxswain of 16 scheme, local vessel seafarers, I think, does not apply 17 17 both vessels did not maintain a proper look-out and did 18 to them. 18 not comply with the Collision Regulations. THE CHAIRMAN: Yes. Thank you. 19 (c) On 20 March 2009, a high-speed craft Cotai Strip 19 20 MR BERESFORD: I note the time, Mr Chairman. I don't know 20 Cotaigold and a local open sampan collided. 21 if you wish to take a break. 21 Investigation by MAIS revealed that the master of Cotai THE CHAIRMAN: Yes, I think perhaps we should. 22 Strip Cotaigold did not maintain a proper look-out. 22 23 23 Mr Lee, we're going to take our break. I know 21. It seems that there is a culture that the 24 24 you've been present in the hearing for many days so masters and coxswains of local vessels are not you'll know we take a 20-minute break. We'll resume in 25 25 accustomed to maintain proper look-out on vessels. Page 54 Page 56 1 1 20 minutes' time. Thank you. Mardep is aware of the main reasons which contributed to 2 (11.32 am) 2 the said collision incidents. It is suggested that 3 3 (A short break) Mardep could consider making it a mandatory requirement 4 for passenger vessels to maintain a designated 4 (11.51 am) 5 look-out." 5 THE CHAIRMAN: Yes, Mr Beresford. 6 MR BERESFORD: Thank you, Mr Chairman. 6 THE CHAIRMAN: Mr Lee, you will have heard of the recommendation that Dr Armstrong has made about the 7 Mr Lee, we were just coming on to the next issue you 7 8 address in your statement, headed "Marine Accidents in 8 importance and need for the Marine Accident 9 9 Hong Kong': Investigation Section to be independent of the Marine 10 10 "18. According to the present regime of Mardep, all Department. Is there anything you wish to say about 11 marine accidents will be reported to Mardep, and 11 that? 12 suitable cases are investigated by surveyors of its 12 A. Yes. First of all, I agree to this recommendation 13 Marine Accident Investigation Section ('MAIS'). Mardep 13 because now in Mardep, their usual practice is they 14 handles an average of about 400 accident cases annually, 14 investigate the accidents and it is involving cases of, of which some 30 to 40 are 'serious' cases, and about yearly, about 350 to 400 cases. And sometimes the 15 15 16 10 are 'very serious' cases which involve casualties. 16 reason of the collision is that of course it's the 19. On 19 September 2012, Mardep issued Notice 17 coxswain, they did not maintain a proper look-out, and 17 18 No. 133 of 2012 to Mariners/Coxswains and Operators of 18 also they are not operating in line with the safety regulations. But I think in this collision, in the 19 Vessels regarding a collision which occurred between a 19 20 high-speed passenger ferry and a motor launch when they 20 Lamma IV and Sea Smooth case, there may be some other 21 were on convergent courses within the speed restriction 21 factors. 22 zone 'A' in the Victoria Harbour (... file ref ...). 22 THE CHAIRMAN: It's simply the issue of whether or not the 23 according to the investigation by MAIS, several factors 23 accident investigation section should be independent of 24 the Marine Department that I'm inviting you to comment 24 contributed to the accident, which included: (a) the 25 on, if you wish. 25 masters of the vessels not maintaining a proper

Page 57 Page 59 A. Yes. Yes, I agree to that. Because then there is 1 offering subsidies or financial incentives to help the another neutral, independent body to investigate and 2 2 shortage and ageing problem of coxswains and engineers. then to put forward the case to the Government 3 3 (e) According to the International Convention for 4 concerned, to see whether there would be some 4 the Safety of Life at Sea (SOLAS) 1974, a revised SOLAS 5 prosecution of some parties. I think that is more fair 5 Chapter V (Safety of Navigation) (2000 Amendments) 6 to all the parties involved. requires automatic identification systems ('AIS'), 6 7 THE CHAIRMAN: Have you been supplied with a copy of 7 capable of providing information about the ship to other 8 Mr Cheng Yeung-ming's statement, which has been provided 8 ships and to coastal authorities automatically, to be 9 to us today, which addresses the issue of the 9 fitted aboard all ships of 300 gross tonnage and upwards 10 independence of the Marine Accident Investigation 10 engaged on international voyages, cargo ships of Section? Have you seen this before? 500 gross tonnage and upwards not engaged on 11 11 12 A. I'll take some time to read this. 12 international voyages and passenger ships irrespective THE CHAIRMAN: So the answer is you haven't seen it before? 13 of size built on or after 1 July 2002. The Government could consider requiring all local passenger vessels to 14 A. No, I haven't. 14 15 THE CHAIRMAN: Well, it is something that the Commission 15 be fitted with AIS. 16 will be receiving later, and you'll get this information 16 (f) Life jackets must be readily accessible in 17 17 at that stage. public spaces of vessels, at the muster/assembly areas, A. Thank you. 18 on deck or in life boats, so that in the event of 19 THE CHAIRMAN: So we'll move on for the moment. 19 emergency passengers need not return to the cabin to get 20 Yes, Mr Beresford? 20 life jackets. The number of children life jackets on 21 MR BERESFORD: So in conclusion, Mr Lee, you raise a number 21 board vessels should be increased and should not be limited to 5% of the maximum carrying capacity of 22 of possible recommendations to address the problems 22 23 you've identified in your statement. Firstly: 23 vessels." "When Mardep issues Marine Notices regarding 24 24 THE CHAIRMAN: Thank you. 25 maritime safety, Mardep officials should conduct MR BERESFORD: Thank you, Mr Lee. Please wait there. Page 58 Page 60 1 Questions by THE COMMISSION 1 inspections and spot-checks of vessels to ensure that 2 they comply with the requirements stated in the Marine 2 THE CHAIRMAN: Mr Lee, you've set out in paragraph 3 the 3 3 fruits of your research into the working hours of other Notices. Mardep should also ensure that the contents of 4 Marine Notices are properly and adequately communicated 4 ferry companies in Hong Kong. A. Yes. 5 to the operators of local vessels in Hong Kong." THE CHAIRMAN: You've described how Star Ferry and Shun Tak 6 That really goes to the question of enforcement of 7 7 provide meal breaks. Mardep's notices; is that right? 8 A. Sorry, could you repeat your question? 8 A. Yes. THE CHAIRMAN: Are there provisions in the Employment 9 Q. That really goes to the question of enforcement of 10 Ordinance of which you are aware that require employers 10 Mardep's notices? You're suggesting that Mardep should to permit their employees to have meal breaks during 11 11 take more steps to enforce their notices? 12 A. Yes, it is desirable for Mardep to enforce -- after they 12 working days? A. You mean the other employers of the other operators? 13 issue notices to coxswains or operators, they take some 13 THE CHAIRMAN: Yes. Is there a provision in the Employment 14 follow-up measures. Q. To follow-up, yes. Secondly, you suggest: 15 Ordinance that deals with or addresses the need to 15 16 "The Government should step up its efforts in 16 provide meal breaks for employees? promoting maritime safety. The Government could liaise A. Yes. Yes, there are no provisions in the Employment 17 Ordinance for meal breaks supplied by the employers. 18 with local vessels companies and trade unions to help 18 19 But these two companies, Star Ferry and Shun Tak, 19 bring the message of maritime safety to the front-line 20 20 staff and employees, and to the community as well. I think they adopt a more human treatment to the 21 21 seafarers, and they provide these meal breaks for them. (c) The Government could tailor-make part-time 22 22 courses that could accommodate the working hours of So you can see in the statement also, besides the 23 maritime profession, in the road transport, both KMB and 23 coxswains and deckhands. 24 also the MTR provide meal breaks for the employees also. 24 (d) The Government could encourage the younger 25 generation to join the local vessels industry by THE CHAIRMAN: That's not a matter you've dealt with in

	Page 61		Page 63
1		1	
1	paragraphs 10 through to 14, but you say that's the	1	THE CHAIRMAN: Yes, please do.
2	fact, that KMB provide specifically for meal breaks for	2	A. Because I forgot. Thank you, Mr Chairman.
3	their employees?	3	The Financial Secretary, he just delivered his
4	A. Yes. Yes.	4	budget proposal at the end of February and there is
5	THE CHAIRMAN: And the MTR?	5	a proposal in section 85 that he proposed to designate
6	A. MTR also. They provide the meal breaks, yes. But as	6	the amount of \$100 million for the training fund for the
7	far as I know, the MTR, there is no payment for meal	7	maritime and aviation training fund. In my statement,
8	breaks. They take the meal breaks on their own time.	8	I also in the conclusion, I recommend that it is
9	THE CHAIRMAN: Yes.	9	hopefully that more younger people will enrol in the
10	Can I seek counsel's assistance. Mr Beresford, are	10	training course and then, after their graduation, they
11	you aware of any provisions in the Employment Ordinance,	11	will enter this profession, then there will be more and
12	which is an ordinance with which I'm not familiar, as to	12	more younger people working in the maritime profession.
13	the requirement in employers to provide meal breaks for	13	So the recommendation is that we ask the Government
14	employees?	14	departments concerned to make this fund more accessible
15	MR BERESFORD: I must confess, Mr Chairman, it's a long time		for the future younger people to apply for this fund,
16	since I've looked at the Employment Ordinance. I don't	16	and then they will be willing to work in this
17	recall any such provision, but I would have to check.	17	profession. Because nowadays, school fees and
18	THE CHAIRMAN: Can any other counsel assist?	18	examination fees may be a burden to them. So that is my
19	MR McGOWAN: I don't believe so. There was a debate about	19	recommendation.
20	meal breaks when the minimum wage legislation was being	20	THE CHAIRMAN: So what you're recommending is that some of
21	discussed.	21	this money be provided for training for seafarers, to
22	THE CHAIRMAN: Yes, I'm aware of that.	22	provide a pool to be recruited into the local vessel
23	MS LOK: I do not recall any express provision in that	23	operators?
24	regard, but I will also need to double-check.	24	A. Yes. Yes, Mr Chairman. Especially to the local vessels
25	THE CHAIRMAN: Yes. Well, this is a matter that in	25	profession, because, you see, there is already an
	Page 62		Page 64
1	particular concerns Hong Kong & Kowloon Ferry. Is there	1	incentive scheme for the seagoing cadets, but not any
2	anything that you have to say about that?	2	programme for local vessel seafarers.
3	MR CHAN: No, Mr Chairman.	3	THE CHAIRMAN: Yes, and you're asking for more of a balance?
4	THE CHAIRMAN: You're not aware of any provision?	4	A. Yes, Mr Chairman. If I may say, the Chief Executive in
5	MR CHAN: As far as I'm aware we did double-check this	5	his policy address mentioned that he is going to enhance
6	point after receiving Mr Lee's statement, and as far as	6	the status of Hong Kong as a shipping centre. In my
7	we can see, there is no provision in relation to	7	view, shipping centre is not only involving Hong
8	mandatory meal breaks.	8	Kong-registered ships of 50-million gross tonnage or
9	THE CHAIRMAN: Truly extraordinary, Mr Lee. But there we	9	60-million gross tonne, or Hong Kong is one of the top
10	are.	10	10 fleet owners or not. I think one of the most
11	A. Yes.	11	important factors is we have safety in our own waters.
12	THE CHAIRMAN: Mr McGowan, do you have any application?	12	That also should be addressed in promoting Hong Kong as
13	MR McGOWAN: I don't, sir. Thank you very much.	13	a shipping centre.
14	THE CHAIRMAN: Hong Kong & Kowloon Ferry?	14	Thank you.
15	MR CHAN: No, Mr Chairman.	15	THE CHAIRMAN: Yes. Thank you very much, Mr Lee.
16	THE CHAIRMAN: Thank you.	16	COMMISSIONER TANG: Mr Lee, in paragraph 15 of your
17	Ms Lok?	17	statement you mentioned the remuneration for local
18	MS LOK: No application.	18	vessels crew. Isn't that a factor to be considered too
19	THE CHAIRMAN: Thank you.	19	in attracting young people to join the profession,
20	Mr Lee, thank you very much for your assistance in	20	because of the conditions of service and the
21	gathering this information together for us, and no doubt	21	remuneration?
22	reflecting your presence on so many days when we've been	22	A. Yes. Thank you, Commissioner. As I understand, this is
23	receiving evidence in the hearing. Thank you.	23	concerning the salary of the coxswains or the deckhands.
24	A. Thank you. But, Mr Chairman, before I go, can I make	24	But we know that the fares collected by the operators is
25	one more short recommendation?	25	limited. Because of these factors, we can't ask for

Page 65 Page 67 1 1 higher salary as the coxswain or the master working in Paragraph 2: 2 Shun Tak, because Shun Tak Company, they are operating 2 "On 1 October 2012, I reported on duty at 3 3 river trade and they have received a more higher fare, 06:00 hours and completed my work at 15:30 hours. At 4 then they can pay about two or three times higher than 4 21:39 hours on the same day, I was informed by the Air 5 5 Command and Control Centre (ACCC), GFS that there had our local coxswains, compared with their masters. 6 6 been a ferry collision off Lamma Island. I was briefed But how we can attract younger people to work under 7 these conditions is that we provide them with some 7 that an aircraft had been deployed. I immediately 8 better prospects. For example, helping them to study 8 returned to my office and arrived at 21:46 hours in 9 9 and to get the examination, and then they will, from the order to take charge of the deployment of GFS. I also 10 10 local vessels' coxswain, they can get the class III informed superior Captain West Wu, the chief pilot 11 seamen -- I mean the seagoing class III certificate. 11 (operations) who also returned to GFS. 12 Then they can choose to work in the river trade, or even 12 After I arrived at the base, I was briefed on the 13 if they are fit to do so, they can work on ocean-going 13 situation by the operation officer in ACCC and aware of 14 vessels. Because we know that in the ocean-going vessel 14 3 unconscious casualties pending transfer for PYNEH by 15 companies, they are very in need of capable engineers 15 R62 (commanded by Captain Victor Lau). At about 16 and officers and masters, and they are very well-paid. 16 21:50 hours, I was informed that the casualties had been 17 17 But the fact is that younger people may be not picked up by R62 and would arrive at PYNEH in 5 minutes. 18 aware, fully aware, of this situation and if they have 18 At 21:57 hours, the marine HQs informed ACCC that no 19 19 further assistance was required from GFS at this stage. some incentive scheme and promotion from the employers 20 or trade union side, then we together we can help the 20 At 22:08 hours on 1 October 2012, a request was 21 younger people to work in this profession. And then we 21 received from Marine Rescue Coordination Centre of 22 22 Marine Department for providing night sun service for can solve this ageing problem. 23 searching. ACCC was told that there were 6 fireboats, 23 Because when I contacted Star Ferry and New First 24 24 Ferry, they said they are in need of about 80 people. 6 Marine Department boats and 5 Marine Police boats on 25 scene. At 22:12 hours, R31 (Captain G Dann) responded 25 They are in need of 80 people -- coxswains, deckhands, Page 66 Page 68 1 1 engineers. Always in need of -- a shortage of the to the request and arrived on scene at 22:25 hours. At 2 manpower. 2 22:42 hours, R31 found an empty life raft at north-west 3 3 So we provide them with the courses and assistance, Lamma, which was reported to the on-scene commander. At 4 and then after a certain period, they gain the 4 23:14 hours, R31 finished searching the eastern side of 5 5 experience and sea-time experience, they can work in the Lamma and the northern coastal line but with nothing 6 river trade and then ocean-going, and then we will have 6 found. They then provided night sun service to other 7 rescuing units until 02:05 hours on 2 October 2012. 7 enough manpower for the local and also the river trade. 8 THE CHAIRMAN: Thank you, Mr Lee. 8 At 00:40 hours on 2 October 2012, the crews of R31 9 A. Thank you. 9 were replayed by a new crew with callsign R51 (Captain 10 10 (The witness withdrew) West Wu). Between 00:59 hours and 03:04 hours, R51 11 THE CHAIRMAN: Yes, Mr Beresford. 11 continued to provide night sun service for other 12 MR BERESFORD: Mr Chairman, next I was proposing to read 12 rescuing units and search but with nothing found. At 13 Mr Evans's statement, Mr Evans being a representative of 13 03:04 hours, R51 left the scene and was replaced by R61 14 the Government Flying Service. 14 (Captain Libby Lee) to continue the task. At 05:16 hours, R80 took over the task from R61. At THE CHAIRMAN: Thank you. 15 15 16 MR JAMES DAVID EVANS (statement read) 16 06:28 hours, R80 reported some life vests floating in MR BERESFORD: Mr Evans gave a statement to the police on 17 the vicinity and requested MRCC to pick them up. 17 18 At 06:45 hours, R82 replaced R80 on the 6th search 18 1 November 2012 which is contained in our police 19 bundle I at page 1355. We have it on the screen. 19 flight. At 07:04 hours, R80 reported an oil spill 20 It can be seen there that he is ex-Royal Air Force. 20 drifting to the south-west of Lamma and advised R82 to 21 He holds the post of flight operation manager in the 21 focus their search at the south-west side. At about 22 Government Flying Service and he provides information in 22 08:45 hours, R82 reported finding some debris in the 23 23 relation to the deployment of the Government Flying waters to the west of Lamma Island. At 08:30 hours, R86 Service in the vessels collision incident according to 24 replaced R82 to continue the aerial search. Between 24

25

08:52 hours and 09:23 hours, R86 was diverted for

the Government Flying Service record.

	P (0		D
	Page 69		Page 71
1	a casualty evacuation in Cheung Chau. At 10:54 hours,	1	shipbuilding, ship plan approval and ship inspection
2	R86 finished the search with nothing found.	2	work for 31 years. I have experience in shipbuilding,
3	At 10:43 hours on 2 October 2012, I contacted the	3	ship repair, ship conversion and ship inspection.
4	senior controller of MRCC and it was agreed that the	4	I have supervised a vast number of large vessel
5	aerial search would be paused until further notice.	5	construction and conversion inspections.
6	However at 10:48 hours, ACCC was informed by Security	6	The Purpose of Submitting a Witness Statement.
7	Bureau that the search would be continued. At	7	3. China Classification Society received a letter
8	11:55 hours, an updated search plan basically covering	8	dated 9 January 2013 from Lo & Lo Solicitors ('9 January
9	the southern HK waters was received from MRCC.	9	letter'). In that letter, the Commission of Inquiry
10	Further flights were then arranged to conduct	10	into the Collision of Vessels near Lamma Island on
11	over-waters search but all with no significant result."	11	1 October 2012 ('Commission') requested CCS to provide
12	Then, Mr Chairman, he sets out the flight details in	12	a witness statement by its authorised officer to explain
13	seven subparagraphs that can be seen on the screen.	13	the followings:
14	THE CHAIRMAN: Yes. There's no need to detail them. Thank		3.1 the role played by and the exact involvement of
15	you very much.	15	CCS in relation to the inspection, survey and
16	MR BERESFORD: Thank you, Mr Chairman.	16	certification of Lamma IV;
17	"At 09:42 hours on 5 October 2012, MRCC stood down	17	3.2 the circumstances and manner in which the survey
18	search operation and no more flights were required to	18	was carried out which resulted in the survey report
19	conduct search."	19	(defined below); and
20	Mr Chairman, next is the question of CCS, and	20	3.3 why CCS was in a position to certify that the
21	there's a statement of Mr Zhang Yu. I'm not sure,	21	hull and main deck construction and their dimension had
22	Mr Chairman, if you've actually made an order or	22	been in compliance with the approved drawings
23	direction as to its reception?	23	(paragraph 6 of the survey report) when there is
24	THE CHAIRMAN: We'd like it read. We'll take it as	24	evidence that both the side and bottom plating are
25	a witness statement that's read.	25	undersized.
	Page 70		Page 72
1	MR BERESFORD: Then I'll proceed to read it.	1	4. When CCS surveyed Lamma IV, it was only known to
2	THE CHAIRMAN: Where do we find it?	2	CCS as the 28 m aluminium launch (Cheoy Lee Yard
3	MR BERESFORD: This is at DLA bundle 1. The translation is	3	No. 4625) at that time. As the survey of the Cheoy Lee
4	at page 33. The Chinese is at page 2, under cover of	4	Yard No. 4625 was conducted 18 years ago, the surveyor
5	DLA Piper's letter dated 29 January 2013 at page 1.	5	in charge had already retired (now 69 years old), and
6	THE CHAIRMAN: Very well. If you'd proceed.	6	CCS had assigned me to investigate into this matter.
7	MR ZHANG YU (statement read)	7	5. I am authorised by CCS to give this witness
8	MR BERESFORD: Reading from the English translation at	8	statement on its behalf.
9	page 33:	9	6. I hereby attach to this witness statement
10	"I, Zhang Yu chief surveyor and senior engineer	10	a bundle of documents which I shall refer to in this
11	of China Classification Society, Guangzhou branch	11	witness statement. Numbers in square brackets below
12	will state and say as follows:	12	denote the page numbers of said bundle of documents.
13	1.1 I was born in [and that's blacked out];	13	7. The relevant survey was carried out 18 years
14	1.2 graduated from South China Institute of	14	ago. I made enquiries with the surveyors of said survey
15	Technology (now known as South China University of	15	but they could not remember its specific details.
16	Technology) in 1982, majoring in shipbuilding;	16	I searched the archives, but I have not been able to
17	1.3 worked in Wenchong Shipyard, Guangzhou from 1982	17	locate any relevant documents. I shall answer the
18	to 1992 on ship design and shipbuilding techniques;	18	Commission's questions by referring to the limited
19	1.4 was transferred to the Register of Shipping of	19	documents provided by the Commission, any relevant
20	the People's Republic of China, Guangzhou branch (now	20	information I gathered during my investigation, the
21	known as China Classification Society, Guangzhou branch)	21	relevant survey regulations applicable at that time, and
22	in 1992, and had been responsible for approving ship	22	the general industry practices of surveying.
23	drawings and inspection work;	23	The role played by and the exact involvement of CCS
24	1.5 was promoted to senior engineer in 1996.	24	in relation to the inspection, survey and certification
25	2. I have been engaged in ship design,	25	of Lamma IV.

Page 73 Page 75 1 tests. When conducting the survey, the surveyor would 1 8. According to the 9 January letter and its 2 refer to the Rules for Shipbuilding Surveys, promulgated 2 attachments, Cheoy Lee Shipyards Ltd ('Cheoy Lee') subcontracted the construction of the hull of a 28 m 3 by the Register of Shipping of the People's Republic of 3 4 aluminium launch (Cheoy Lee yard No. 4625) to Wuzhou 4 China and effective from 15 April 1994 ('Rules for 5 Shipyard in Guangxi, the PRC ('Wuzhou Shipyard') in 5 Shipbuilding Surveys'), for guidance." He refers to pages 6 to 14, which are pages 17 to 23 6 1995. According to our investigations, at that time 6 7 Wuzhou Shipyard undertook to construct part of the hull 7 of the bundle. Again these are in Chinese and I don't 8 of the said vessel, and after its completion it was 8 believe we have any translation. 9 transported out of Wuzhou. Wuzhou Shipyard made THE CHAIRMAN: Yes. an application to CCS, requesting CCS to conduct 10 10 MR BERESFORD: "The content and manner of survey of CCS a survey in respect of items 1 to 4, 8 in respect of 11 11 items are as follows: 12 x-ray film examination, 9 to 11 and 13 ('CCS items') on 12 12.1 Item 1, mould loft: mainly involved the 13 the survey items list of the Marine Department of Hong 13 inspection of the mould loft floor's environmental 14 Kong ('Marine Department') ... and in accordance with conditions, and the conformity of the projection of the 14 the ship drawings (ship drawing No. NC-391) approved by grating and hull lines; 15 15 16 the Marine Department. 16 12.2 Item 2, hull plating materials test: confirmed 17 that the hull plating materials had the product 17 9. After completion of the survey, surveyor Mr Su Chang-tao confirmed on behalf of CCS the certificate issued by the American Bureau of 18 18 Shipping ..." 19 completion of the surveying of the CCS items on the 19 20 survey items list, signed against the survey items list, 20 THE CHAIRMAN: Just pausing there. We've never been 21 provided by anyone with that certificate, have we? The 21 and issued a survey report on 6 September 1995." 22 Americans don't have it in their records, and Cheoy Lee 22 I've passed over the exhibits, Mr Chairman. The 23 survey items list is at page 1, which is at page 10 of 23 are unable to provide it to us as well? 24 24 the bundle, and that of course can be compared with the MR BERESFORD: As best as I can recall, Mr Chairman, we've 25 only seen the invoices for that sort of material but no 25 survey items list that we're familiar with at page 265 Page 74 Page 76 1 of marine bundle 2. 1 certificate. 2 THE CHAIRMAN: Yes. 2 THE CHAIRMAN: Yes. No certificate. 3 MR BERESFORD: And the survey report is the continuation of MR BERESFORD: "... and compared the certificate label 4 that document at page 11 and 12 of the bundle, and which against the actual label on said materials. Relevant 4 5 compares to pages 266 and 267 in marine bundle 4. 5 excerpts from the Rules for Shipbuilding Surveys THE CHAIRMAN: And is dated 6 September 1995? 6 explaining this item include clause 3.1 [page 9 of the MR BERESFORD: Correct, Mr Chairman. 7 exhibit]: CCS has to 'inspect the product certificates 8 THE CHAIRMAN: Yes. 8 of all materials and products to be used in important 9 MR BERESFORD: "In my attempt to locate relevant archived 9 structures and components of the vessel, and check their 10 documents, I went to the archives of CCS. However, 10 embossed stamps or labels'. Due to the vast amount of 11 I did not manage to locate any relevant archived 11 ship plates, a surveyor could not and would not at this 12 documents. Pursuant to clause 8.4 of the 'Instructions 12 stage of ship plate certificate inspection ascertain 13 for Management of Substitution Surveys of Ships' 13 precisely which part of the shipbuilding would a certain effective from 20 November 1994, the documents would 14 14 ship plate be used, and would only compare the only be dept for 5 years for a survey of this type." 15 15 certificates against the actual label on the plates to 16 He refers to pages 4 and 5, which are at pages 13 16 ensure that the plates in question had valid product 17 and 14 of the bundle. These are in Chinese. 17 certificates. THE CHAIRMAN: Yes. 18 18 12.3 Item 3, preparation before welding: mainly MR BERESFORD: "The circumstances and manner in which the involved the inspection of the shipyard's aluminium 19 19 20 survey was carried out which resulted in the Survey 20 alloy welding process, the qualifications of their 21 Report. 21 welders and non-destructive testers, as well as their 22 CCS accepted Wuzhou Shipyard's application, and 22 welding equipment, quality assurance system, et cetera. 23 carried out a survey of the CCS items on the survey 23 Relevant excerpts from the Rules for Shipbuilding 24 items list by conducting visual inspection, verifying 24 Surveys explaining this item include: 25 the non-destructive testing reports, and witnessing 25 12.3.1 Clause 2.1 [at page 8 of the exhibit]:

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'acceptability of the qualifications of the welders and non-destructive testers' and the relevant requirements;

12.3.2 Clause 2.2: 'acceptability of the welding process, technical conditions, and other important processes' and the relevant requirements;

12.3.3 Clause 2.3: 'inspection of the raw materials and welding rod management system' and the relevant requirements;

12.4 Item 4, keel-laying: confirmed the keel-laying

12.5 Item 8, hull construction survey (x-ray examination): CCS's responsibility regarding this item was limited to reviewing the x-ray films and the non-destructive testing report, and the results had met the relevant requirements. The usual practice is, after the completion of hull welding but before the tightness tests, the shipyard would carry out an x-ray examination on the welding. The shipyard would then notify the surveyor to attend the shipyard and review the x-ray films and the non-destructive testing report. In order to ensure that the x-ray examination and the tightness test can be carried out smoothly, the surveyor would usually carry out a visual inspection of the relevant welds before the x-ray examination and the tightness

side and bottom plating are undersized'.

13. First, it needs to be explained that:

13.1 according to the notes at the bottom of the survey items list, the surveys carried out by our surveyors at that stage of shipbuilding were the items that were marked with an asterisk and had a survey date and name of surveyor marked against them;

13.2 the survey report was intended to be a brief description of the actual work done by our surveyors pursuant to Wuzhou Shipyard's application, and the results: and

13.3 what paragraph 6 of the survey report meant was that our surveyor witnessed the measuring of the hull's main dimensions. This was required by Wuzhou Shipyard in order to issue a product certificate. It was a widespread practice for mainland shipyards at that time (please see the product certificate samples at [15-16])."

That's pages 24 and 25 of the bundle. Again, those certificates are in Chinese. I don't believe we have translations.

THE CHAIRMAN: Thank you.

MR BERESFORD: "Regarding what the surveyor wrote in 23 24 paragraph 6 of the survey report, that 'the hull and main deck construction and their dimensions have been 25

inspected and found compliance with request of the

Page 78

12.6 Item 9, fuel oil/deep tanks hydraulic test: carried out a hydraulic test in accordance with the requirements stipulated in table 4.5.2(1) of the Rules for Shipbuilding Surveys [at pages 11 and 12], confirmed that there was no leakage in the compartments, and that there was no significant deforming of the structure;

12.7 Item 10, fore & aft peaks leakage test: as the fore & aft peaks were empty holds, they would be flooded to the full load waterline, and the area above the waterline would be hosed, the result of which passed the leakage test;

12.8 Item 11, engine room flood test: as the Rules for Shipbuilding Surveys had no specific requirements for an engine room flood test, the requirements stipulated in table 4.5.2(1) of the Rules for Shipbuilding Surveys were adopted to confirm that there was no leakage; and

12.9 Item 13, hull hose test: carried out a hose test pursuant to the requirements stipulated in clause 4.5 of the Rules for Shipbuilding Surveys, and confirmed that there was no leakage.

Why CCS was in a position to certify that the hull and main deck construction and their dimension had been in compliance with the approved drawings (paragraph 6 of 24 the survey report) 'when there is evidence that both the

drawing', after confirming with our surveyor who wrote the above, I understand it was to explain that the measurements of the hull and the deck's main dimensions (ie length, breadth and moulded depth) had conformed with those marked on the ship drawings. It was not referring to any measurements of shell plating or any specific structural members. As a CCS jargon, 'dimensions' usually meant 'main dimensions', and when referring to sizes (including thickness) of any specific material used, the word 'scantlings' would usually be used instead. At that time the main dimensions were measured by the shipyard with plumb-bob, measuring tape,

In sum, as noted from the survey items list, CCS had finished surveying the CCS item on the survey items list. The CCS items did not include the inspection of the thickness of the side and bottom plating of the actual hull. According to the survey items list, I believe that the inspection of the thickness of the side and bottom plating should be the responsibility of the surveyor of the Marine Department who was responsible for item 6 (shell and bulkheads) of the survey items list. I consider the substitution of the actual shell plating used for the vessel, and the clear

levelling pipe and pole, and witnessed by our surveyor.

	P 01		D 02
	Page 81		Page 83
1	division of work regarding surveying responsibilities,	1	THE CHAIRMAN: Yes.
2	are shown in the correspondence between Cheoy Lee and	2	MR CHENG YEUNG-MING (statement read)
3	the Marine Department dated 4 April, 25 April, 27 April	3	MR BERESFORD: It's a statement of Mr Cheng Yeung-ming,
4	1995 as provided by the Commission."	4	Chief Marine Accident Investigation & Shipping Security
5	He refers to pages 19 to 25 of the exhibit, which	5	Policy, Marine Accident Investigation and Shipping
6	starts at in fact I think that's probably a typo,	6	Security Branch, Marine Department. He says:
7	Mr Chairman, because the letter dated 4 April 1995 is	7	"I am a principal surveyor [with] the post [as
8	page 17	8	I have just stated] I obtained a class one (steam
9	THE CHAIRMAN: Yes.	9	and motorship) marine engineer officer certificate of
10	MR BERESFORD: page 26 of the bundle.	10	competency from UK in 1988 and BSc (Honours) degree in
11	THE CHAIRMAN: Thank you.	11	Mechanical Engineering from the University of Hong Kong.
12	MR BERESFORD: In the last paragraph, Cheoy Lee say to the	12	Currently, I am a fellow member of the Hong Kong
13	Marine Department:	13	Institution of Engineers and member of the Institute of
14	" we wish to inform you that the hull & main deck	14	Marine Engineering, Science and Technology of UK.
15	are to be built at the Wuzhou Shipyard, Guangxi	15	I joined Mardep in April 1991 as a surveyor of ships.
16	province. As such construction will be surveyed by ZC	16	I was then promoted to senior surveyor of ships in
17	or CCS. After completion the hull will be transported	17	November 1995 and principal surveyor of ships in June
18	to Hong Kong and all GRP superstructure and outfitting	18	2010. I have worked in the Government New Construction
19	work will be carried out at our facilities."	19	Section, Cargo Ships Safety Section, Boiler and Pressure
20	At page 30 of the bundle, the letter dated 25 April	20	Vessels Division of the Labour Department, Seafarers'
21	1995 from Cheoy Lee to the Director of Marine says:	21	Branch, Maritime Policy Branch of Multilateral Policy
22	"We also need a letter from you with a list of all	22	Division and was posted to the MAISSPB in October 2011."
23	the items that the Marine Department needs to	23	I should say "Shipping Security Branch". He's got
24	inspect The aluminium hull and main deck of the	24	a long acronym for that, Mr Chairman. I'm just going to
25	captioned vessel is to be built in China as indicated in	25	call it "the branch" if it comes up again.
	Page 82		Page 84
1	our letter of 4 April last."	1	THE CHAIRMAN: Yes, very well.
2	27 April at page 31 of the bundle is a letter from	2	MR BERESFORD: "I make this witness statement on behalf of
3	the Marine Department to Cheoy Lee, enclosing the survey	3	the Director of Marine, who has been granted leave to
4	items list. It says:	4	participate in the hearings of the Commission of Inquiry
5	"Please be advised that you may invite CCS's	5	appointed pursuant to section 2 of the Commissions of
6	surveyors to carry out surveys on those items marked	6	Inquiry Ordinance on 22 October 2012 by the ruling
7	[with an asterisk]. However surveys of other items	7	made on 5 December 2012. Save where otherwise appears,
8	marked 'HKMD' should be done by surveyors/ship	8	the facts deposed hereto are within my personal
9	inspectors of this Department."	9	knowledge or are derived from office files and records
10	THE CHAIRMAN: Thank you.	10	and sources to which I have access, and are true to the
11	MR BERESFORD: So that deals with that evidence,	11	best of my knowledge, information and belief.
12	Mr Chairman.	12	In this witness statement, I will explain the
13	Mr Chairman, there are then three matters from the	13	structure and function of the MAIS and the
14	Department of Justice. There's the witness statement of	14	division/branch which it belongs, the number of
15	Cheng Yeung-ming.	15	personnel working under this section and how the
16	THE CHAIRMAN: Yes. He deals with the Marine Accident	16	officers of MAIS interact with other Mardep officers in
17	Investigation Section?	17	the performance of their work generally. I will also
18	MR BERESFORD: Yes. There's a notification about the	18	set out Mardep's views on recommendation number 14 in
19	current position regarding prosecutions; and a letter	19	paragraph 88 of Captain Nigel Pryke's expert report
20	from the Department of Justice regarding Marine	20	(part 2) dated 3 March 2013 which is, 'whether
21	Department Notices.	21	consideration should be given to removing MAIS from the
22	THE CHAIRMAN: Very well. Perhaps we could deal with the	22	Mardep organisation in accordance with the Code of the
23	witness statement first.	23	International Standards and Recommended Practices for a
24	MR BERESFORD: Certainly. This is in marine bundle 13 at	24	Safety Investigation into a Marine Casualty or Marine
25	page 5097.	25	Incident (Casualty Investigation Code), IMO resolution

Page 85 1 MSC.255(84).' 1 appointed to study the report. The review panel should 2 2 Background of MAIS. consist of experts from those divisions in Mardep that 3 3 Taking note of the adoption of the Code for the do not have an interest in the incident. The only term 4 Investigation of Marine Casualties and Incidents in 4 of reference for the review panel is to see whether November 1997 by the International Maritime Organization Mardep agrees with the conclusions and recommendations 5 5 by resolution A.849(20), Mardep established that MAIS in made in the report. The review panel is not to instruct 6 6 7 early 1997 as a section under the Shipping Division 7 or tell the investigating officer how the investigation 8 which was responsible for the safety inspection and 8 should have been carried out or how the report should 9 certification of ocean-going and local vessels. 9 have been written. A senior surveyor of ships and two surveyor of ships 10 10 The review panel would submit via the Deputy posts of the nautical discipline were created for the 11 11 Director of Marine its comments to the Director of 12 MAIS to investigate all marine accidents occurring in 12 Marine who would make the final decision as to Mardep's 13 Hong Kong and on board Hong Kong-registered ships. 13 position in respect of the investigating officer's 14 In January 2000, the MAIS was redeployed from the 14 report. If Mardep's final position involves 15 Shipping Division to the MPD under [the branch]. The 15 implementation of accepted recommendations, the 16 scope of investigation was also expanded in May 2007 to 16 division(s) concerned would be informed of the decision 17 17 cover also marine industrial accidents that occurred on and would be requested to take necessary follow-up 18 ships while working cargo or repairing in Hong Kong. 18 actions within their respective ambits. 19 19 Current Structure of [the branch] [The branch] or MAIS does not initiate prosecutions 20 [The branch] has an establishment of a principal 20 to those who may have violated the provisions in law but 21 surveyor of ships, who heads the branch and is assisted 21 will remind the operational divisions concerned of the 22 by a senior surveyor of ships, three surveyors of ships, 22 possible contravention of the law. The divisions 23 concerned must carry out their own investigations for 23 and one clerical assistant. 24 24 [The branch]'s Relationship with other Mardep the prosecution of offenders. 25 Recommendation of Setting Up an on Independent Body. 25 officers. Page 86

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[The branch] is one of the three branches under the MPD in Mardep. Its main function is to carry out marine accident investigations. MPD is not the regulatory and administrative authorities in Mardep for ship safety and for the Hong Kong port. Its main responsibilities are for the development of technical policies and standards and to make or amend regulations for international and coastal shipping, in particular in areas of safety, maritime security, seafarer and environmental protection.

The marine accidents investigated by [the branch] are impartial and independent. On receipt of notification and reporting of accidents, [the branch]'s officers would carry out investigation and prepare report(s) independently. In the process, [the branch]'s officers would have a working relationship with the front-line officers of other divisions.

Mardep is fully aware of the importance of the impartiality of [the branch] and MAIS. Under the existing procedures, the investigation officer would complete the investigation report and send it via the senior surveyor of ships to the principal surveyor of ships for endorsement before it is submitted to the Deputy Director of Marine. Upon receipt of the report, DD would decide whether a review panel should be

Page 88 Hong Kong is a small city and residents are able to obtain information speedily from the media. Accidents resulting in substantial casualties will arouse great public interests and it is clear that the Government of the HKSAR has the will and determination to address these public concerns. In accidents resulting in substantial casualties, either the Director of Marine would initiate a preliminary enquiry which may help the Chief Executive to appoint a Marine Court to investigate and inquire into charges of incompetency or misconduct on the part of masters, mates or engineers of ships where considered necessary or, the Chief Executive could appoint a Commission of Inquiry to investigate into the incident. It is considered that with all the built-in measures in hand, the independency of investigation into marine accidents is ensured. The establishment of an independent accident investigation board similar to the United Kingdom or Australia may not be appropriate for Hong Kong's situation." THE CHAIRMAN: Thank you. MR BERESFORD: Then, Mr Chairman, there's just an update on the prosecutions, which is at marine bundle 13, items 87 to 87D. 87 commences at page 5073. Essentially this reports that the Department of Justice is considering

some prosecutions. The ones they've mentioned are

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Page 89 Page 91 fairly technical in nature. They're not manslaughter THE CHAIRMAN: Thank you. That was certainly my memory. 1 MR BERESFORD: Then the Department of Justice go on to say: 2 endangering life at sea. But no final decision has been 2 3 made. So I don't propose to go into that in any more 3 "Further, the Director may give to an owner or his 4 detail. 4 agent or a coxswain or other person who appears to the 5 THE CHAIRMAN: Just give me a moment. Yes. That, then, is Director to have control over a local vessel such 5 the position to which Mr Zervos testified at a much 6 directions as he thinks fit in any particular case for 6 7 earlier stage, or, rather, addressed the Commission at 7 inter alia for ensuring the safety of the vessel in the 8 a much earlier stage. 8 waters of Hong Kong. Such discretionary power is 9 MR BERESFORD: Yes. 9 provided in section 24(f) of the Merchant Shipping 10 (Local Vessels) Ordinance (Cap 548). Similar power is 10 THE CHAIRMAN: Thank you. 11 provided in section 16(f) of the Shipping and Port 11 MR BERESFORD: Then there's the matter of the Marine 12 Department Notices and the authority under which they 12 Control Ordinance (Cap 313). Whether which Ordinance 13 are issued, which is addressed in the Department of 13 applies depends on the definition of the vessel covered 14 14 Justice's letter at page 5071 of the same bundle. by that particular Ordinance. 15 THE CHAIRMAN: Yes. 15 The effect of non-compliance of the directions are 16 MR BERESFORD: They respond to the questions of: 16 provided in section 68 and section 84(6) of Cap 548 and "(a) whether the Marine Department Notices 17 17 sections 16A and 61 of cap 313. 18 (including No. 131 of 2012) were only advisory in 18 Whilst the said provisions may be construed to mean 19 19 nature; and that the Director's discretionary power to issue 20 (b) whether or not there is such a power to make the 20 mandatory 'directions' for the safety of the vessels in 21 21 guidance as set out in the [notice] mandatory, or does the waters of Hong Kong covers the imposition of safety the Director need new legislation to do so." 22 22 measures, it is highly doubtful if the directions can be 23 used to impose duties more onerous than those expressly 23 THE CHAIRMAN: Yes. 24 24 MR BERESFORD: They say: imposed by the statutes, particularly when the 25 "It has been Mardep's understanding that guidance in 25 directions are not necessarily gazetted. Consideration Page 90 Page 92 1 1 the [notices] are advisory in nature, except for certain arises in two situations: 2 matters specifically provided for by statutory 2 (1) where the statutory provisions expressly set out 3 a mandatory requirement (for example the number of life 3 provisions. For example, the provisions as to the 4 regulation of traffic in relation to the fireworks 4 jackets) but the directions are used to top up such 5 5 display in [notices] have been issued pursuant to the requirement over and above the statutory prescription; 6 6 Director's statutory power expressed in Regulation 66A 7 7 (2) the directions are used to impose a particular in part VIII of the Shipping and Port Control 8 Regulations (Cap 313A): 8 requirement which cannot be found in any of the statutes (for example the donning of life jackets by all children 9 '(1) On the occasion of any fireworks display held 9 10 10 or organised in or upon any part of the waters of Hong whilst they are on board). 11 11 Kong, the Director may prohibit or regulate all traffic which, without the voluntary co-operation from the 12 upon or in the vicinity of such waters and may give to 12 owner or coxswains or those in control of the vessel, any such person such directions as he thinks fit for the 13 the directions may be susceptible to legal challenge." 13 14 avoidance of accidents and the safety of persons. 14 THE CHAIRMAN: So there is a lacuna in the law if the 15 advisory notice, for example, as to children's life 15 (2) Any person who fails to comply with any 16 prohibition or regulation of traffic, or direction 16 jackets, even simply the number -- all vessels must given, under paragraph (1) commits an offence and is 17 carry a child's life jacket for every child on board the 17 vessel -- that would not be enforceable? 18 liable to a fine at level 1." 18 MR BERESFORD: It's not enforceable. 19 THE CHAIRMAN: Remind me, if you would, the Marine 20 Department Notice of 19 September of last year, did that 20 THE CHAIRMAN: A lacuna in the law? 21 MR BERESFORD: Yes, Mr Chairman. 21 state the power under which the closure order was made? 22 MR BERESFORD: I don't believe it did. It's in 22 THE CHAIRMAN: If that is to be a desired objective. 23 23 MR BERESFORD: Yes. miscellaneous bundle, as I recall, as an attachment to 24 THE CHAIRMAN: Thank you. 24 the document commencing at page 57. I'm informed that MR BERESFORD: Mr Chairman, there are two other matters that 25 it doesn't, Mr Chairman.

Page 93 Page 95 1 I just might mention. 1 retires to consider its decision. There's the CCTV. THE CHAIRMAN: We're not going to retire and do that; we're 2 2 3 3 THE CHAIRMAN: Yes. That's the CCTV from the Lamma -going to receive submissions. 4 MR BERESFORD: Lamma Power Station pier, and I understand 4 MR BERESFORD: Submissions, yes. Closing submissions. Any 5 there has been some correspondence about that, but so 5 other evidential matter, I should have said. far, nothing has been recovered. THE CHAIRMAN: Are there any evidential matters that any 6 counsel wishes to remind us of that we haven't dealt MR McGOWAN: I believe it was collected and was taken to the 7 7 8 Police Technical Branch. 8 with? 9 THE CHAIRMAN: I'm not looking at you, Mr McGowan. 9 Mr McGowan? Ms Lok, this is months ago that we asked for this to MR McGOWAN: None that I can recollect. 10 THE CHAIRMAN: Hong Kong & Kowloon Ferry? 11 be looked at. 12 MS LOK: May I have a moment, please, Mr Chairman. MR CHAN: Nothing from us, Mr Chairman. 13 Mr Chairman, I'm afraid that I will need some time THE CHAIRMAN: Ms Lok? to get into the details. Can I suggest that we write 14 MS LOK: No. a letter to the Commission to give all the details in 15 15 THE CHAIRMAN: Thank you. 16 the afternoon? 16 Moving forward then to the receipt of written and THE CHAIRMAN: Well, really, what we want to know is whether 17 oral submissions. Has contact been made with Coxswain 17 18 or not anything of use to us has been found. 18 Lai as to whether or not he wishes to make any written 19 MS LOK: As I understand it so far, no. submission or whether or not he wants to be represented? 19 THE CHAIRMAN: Thank you. 20 20 MR BERESFORD: Yes, I believe a notice has been given to 21 21 Mr Beresford? notify him. 22 MR BERESFORD: The last matter is a similar question 22 THE CHAIRMAN: Do you have a copy of the notice to him? relating to the radar retrieval. MR BERESFORD: No, Mr Chairman; it was done by telephone. 23 24 24 THE CHAIRMAN: Yes. Who was looking at that? THE CHAIRMAN: And he was told that he could make written MR BERESFORD: That was the police, I do believe, who were 25 and oral submissions if he wished? Page 94 Page 96 trying to see if any material could be recovered from 1 MR BERESFORD: He was, I'm instructed, yes. THE CHAIRMAN: And that oral submissions would be beginning 2 the memory. 3 THE CHAIRMAN: Ah, that's right. On Sea Smooth? 3 on Monday? 4 MR BERESFORD: Yes. MR BERESFORD: Yes, Mr Chairman. MR McGOWAN: I thought it was actually Lamma IV. Lamma IV's THE CHAIRMAN: Has he indicated whether he wishes to avail radar was removed by the Police at a very early stage. himself of that? 6 THE CHAIRMAN: Very well. Perhaps it's both vessels. MS ABDULLAH: He said he would have to think about it. 8 What's the position as far as that's concerned? 8 THE CHAIRMAN: Thank you. 9 MS LOK: I must apologise, Mr Chairman. We will write 9 What then of the other crew members on the Sea 10 a letter to the Commission in the afternoon with the 10 Smooth? Have they been contacted? MR BERESFORD: They've all been called, Mr Chairman. 11 11 12 MR BERESFORD: I wonder if there might have been some 12 THE CHAIRMAN: And what, if anything, is their response? confusion between the two issues. I think probably CCTV 13 13 Are they also thinking about it? MR BERESFORD: They've just acknowledged it, Mr Chairman. 14 is in fact Hongkong Electric's issue. 15 THE CHAIRMAN: No, I think the Marine Police were going to THE CHAIRMAN: Thank you. 15 16 examine it to see if they could find something that 16 Very well. Before we adjourn, I'm going to give 17 Hongkong Electric can't find. 17 some further directions to assist the parties to comply 18 MR BERESFORD: Very well. 18 with what it is that we seek by way of their help. THE CHAIRMAN: That's my memory. 19 We would ask that counsel for the Commission provide 19 20 MR McGOWAN: Yes. It was actually the memory they were 20 us -- all parties are to provide us with written and 21 going to look at and see whether there was anything in 21 electronic submissions, if they wish to make 22 22 there. submissions. 23 THE CHAIRMAN: Yes. 23 The counsel for the Commission are to provide us MR BERESFORD: Mr Chairman, I'm not aware of any other 24 with their submissions by 5 pm on Saturday. We ask that 25 25 matter that needs to be dealt with before the Commission counsel for all other parties, the involved parties, as

	Page 97		Page 99
1	we've called them, provide us with written and	1	INDEX
1	-	1	
2	electronic submissions, if they wish to make	2	DR NEVILLE ANTHONY ARMSTRONG (on former oath)1
3	submissions, by 8.30 am on Monday.	3	Examination by MR MOK (continued)
4	We will then proceed to take oral submissions from	4	Further examination by MR BERESFORD25
5	counsel for the Commission, to whom we have allocated	5	(The witness withdrew)39
6	two hours, on Monday, beginning at 10 o'clock. And then	6	MR LEE KWOK-KEUNG (sworn)40
7	we'll follow in sequence with other counsel.	7	Examination by MR BERESFORD40
8	Certainly as far as counsel representing Hongkong	8	Questions by THE COMMISSION60
9	Electric and the crew of Lamma IV, first, after counsel	9	(The witness withdrew)66
10	for the Commission; then counsel now, as it is, for Hong	10	MR JAMES DAVID EVANS (statement read)66
11	Kong & Kowloon Ferry and Islands Ferry; then we would	11	MR ZHANG YU (statement read)70
12	take any submissions that are to be made by the crew of	12	MR CHENG YEUNG-MING (statement read)83
13	Sea Smooth, or any one of them. But we're minded then	13	
14	to permit Mr Dominic Yeung to make his submissions out	14	
15	of order, to accommodate his other commitments, unless	15	
16	anyone has an objection to that.	16	
17	Then we would proceed with the other parties in	17	
18	sequence.	18	
19	MR McGOWAN: If it helps, sir, my learned friend did make	19	
20	a mistake yesterday. Mr Grossman is actually available	20	
21	on Tuesday. I think it's just Mr Sussex who is not.	21	
22	THE CHAIRMAN: Right.	22	
23	MR McGOWAN: That might give a little bit more flexibility	23	
24	perhaps.	24	
25	THE CHAIRMAN: We'll be hearing from Mr Grossman on Monday		
	Page 98		
1	if he wishes to address us.		
2	MR McGOWAN: Yes. Thank you.		
3	THE CHAIRMAN: Are there any other matters that counsel wish		
4	to raise?		
5	MR BERESFORD: Not on our part, Mr Chairman.		
6	MR McGOWAN: No, thank you.		
7	THE CHAIRMAN: Perhaps Ms Lok has a response to our enquiry.		
8	MS LOK: Yes, I have a useful update. There are in total		
9	three machines in respect of the CCTV. The first one,		
10	I believe that we have provided an answer to the		
	_		
11 12	Commission. For the second machine, it is		
	THE CHAIRMAN: Meaning a negative result?		
13	MS LOK: Yes. Nothing helpful.		
14	THE CHAIRMAN: Yes.		
15	MS LOK: The second one, scanning is still in process. And		
16	the third one, I'm afraid, is quite broken down and it		
17	needs to be repaired before access can be gained into		
18	the contents thereof.		
19	THE CHAIRMAN: So for our purposes, nothing of any use?		
20	MS LOK: Yes.		
21	THE CHAIRMAN: Thank you.		
22	Very well. We'll adjourn now and resume with		
23	submissions at 10 o'clock on Monday.		
24	(1.00 pm)		
25	(The hearing adjourned until 10 am on Monday, 11 March 2013)		