	Page 1		Page 3
1	Wednesday, 12 December 2012	1	criminal responsibilities. But following a casualty of
2	(10.00 am)	2	such tragic scale and nature, the public, especially the
3	THE CHAIRMAN: I understand Mr McGowan is delayed, so let me		survivors and the relatives and friends of those who
4	address those instructing him.	4	have lost their lives, has a legitimate interest in
5	Counsel for the Commission have drawn to our	5	learning the truth as to what in fact happened. Society
6	attention correspondence passing between them and Reed	6	has a wider interest in understanding what lessons could
7	Smith Richards Butler as to the timeframe in which	7	be learned.
8	compliance is to be met for the provision of	8	It is against this background that the Chief
9	documentation to counsel for the Commission and the	9	Executive established this Commission of Inquiry under
10	Commission itself. I have asked counsel to discuss the	10	the Commissions of Inquiry Ordinance.
11	matter with Reed Smith Richards Butler, and we'll deal	11	The terms of reference are well-known. The Chairman
12	with the matter after the mid-morning break.	12	read them out at the preliminary hearing and I will not
13	For everyone's information, the Commission has	13	repeat them.
14	received an application to make an opening speech and	14	The purpose of this Inquiry is to carry out a full
15	has acceded to the request on behalf of those	15	and fair and transparent investigation into the relevant
16	representing Hongkong Electric and the crew of the	16	events and to expose these facts to public scrutiny
17	vessel Lamma IV. But first of all, we'll start with the	17	without fear of scrutiny or favour. That is the purpose
18	opening address by counsel for the Commission.	18	of every public inquiry.
19	Can I ask everyone to bear in mind that many people	19	But I must emphasise, as the chairman has, that it
20	are listening to these proceedings through simultaneous	20	is not the function of this Inquiry to establish civil
21	interpretation. It might assist those interpreting if	21	liability or to consider whether any criminal offence
22	things are done at a slightly slower speed than might	22	has been committed. It is not in the public interest
23	otherwise be done.	23	that this Commission should do so. Civil liability is
24	MR SHIEH: Certainly.	24	the role of civil courts, and it may involve arguments
25		25	of law and facts which are not appropriate for
	Page 2		Page 4
1	Opening submissions by MR SHIEH	1	an inquiry of this nature; and criminal investigation
2	MR SHIEH: Mr Chairman, Mr Commissioner.	2	and prosecution is within the province of the Police and
3	On 1 October 2012, at about 8.20 pm, near Lamma	3	the Director of Public Prosecutions. If a prosecution
4	Island, a ferry called Sea Smooth and a launch called	4	is indeed brought, then determination of guilt is for
5	the Lamma IV collided. The Sea Smooth remained afloat	5	the criminal courts exclusively.
6	and proceeded to Yung Shue Wan, but the Lamma IV sank	6	The express terms and direction of the terms of
7	within minutes, stern-first, with the consequential loss	7	reference and the notice of appointment expressly make
8	of 39 lives.	8	this clear, that the determination of civil and criminal
9	This was the worst marine tragedy in Hong Kong in	9	liability shall be outside the terms of reference.
10	5 6 6 6	10	But the Commission's report could well subject
		11	persons to criticism, and the report may also make
11	5 5 5		
12	an unprecedented display and outpouring of public grief.	12	recommendations, which could have long-term effect as to
12 13	an unprecedented display and outpouring of public grief. For many survivors, the healing process is	12 13	recommendations, which could have long-term effect as to the way in which persons or Government departments
12 13 14	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this	12 13 14	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of
12 13 14 15	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join	12 13 14 15	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave
12 13 14 15 16	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and	12 13 14 15 16	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given
12 13 14 15 16 17	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and	12 13 14 15 16 17	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties.
12 13 14 15 16 17 18	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and	12 13 14 15 16 17 18	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of
12 13 14 15 16 17 18 19	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and courage.	12 13 14 15 16 17 18 19	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of Inquiry and assisted by Mr Roger Beresford on my right,
12 13 14 15 16 17 18 19 20	an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and courage. In Hong Kong, following any significant casualty,	12 13 14 15 16 17 18 19 20	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of Inquiry and assisted by Mr Roger Beresford on my right, and Mr Mike Lui, behind Mr Beresford, on the
12 13 14 15 16 17 18 19 20 21	 an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and courage. In Hong Kong, following any significant casualty, the machinery of justice can be expected to run its 	12 13 14 15 16 17 18 19 20 21	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of Inquiry and assisted by Mr Roger Beresford on my right, and Mr Mike Lui, behind Mr Beresford, on the instructions of Messrs Lo & Lo.
12 13 14 15 16 17 18 19 20 21 22	 an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and courage. In Hong Kong, following any significant casualty, the machinery of justice can be expected to run its usual and normal course. Investigations by law 	12 13 14 15 16 17 18 19 20 21 22	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of Inquiry and assisted by Mr Roger Beresford on my right, and Mr Mike Lui, behind Mr Beresford, on the instructions of Messrs Lo & Lo. Counsel to the Commission of Inquiry have five
12 13 14 15 16 17 18 19 20 21	 an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and courage. In Hong Kong, following any significant casualty, the machinery of justice can be expected to run its usual and normal course. Investigations by law enforcement agencies may ensue, and civil 	12 13 14 15 16 17 18 19 20 21 22 23	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of Inquiry and assisted by Mr Roger Beresford on my right, and Mr Mike Lui, behind Mr Beresford, on the instructions of Messrs Lo & Lo. Counsel to the Commission of Inquiry have five principal functions:
12 13 14 15 16 17 18 19 20 21 22 23	 an unprecedented display and outpouring of public grief. For many survivors, the healing process is continuing and I am sure that everyone involved in this Inquiry, and indeed the people of Hong Kong, will join me in wishing that the survivors and their family and their friends can recover quickly from any trauma and bereavement following this incident with strength and courage. In Hong Kong, following any significant casualty, the machinery of justice can be expected to run its usual and normal course. Investigations by law enforcement agencies may ensue, and civil responsibilities will need to be addressed and resolved. 	12 13 14 15 16 17 18 19 20 21 22	recommendations, which could have long-term effect as to the way in which persons or Government departments conduct themselves in future. So there is a duty of fairness to these parties who may be affected, and leave to participate by legal representatives has been given to various involved parties. I am appointed as counsel to the Commission of Inquiry and assisted by Mr Roger Beresford on my right, and Mr Mike Lui, behind Mr Beresford, on the instructions of Messrs Lo & Lo. Counsel to the Commission of Inquiry have five

1 (Pages 1 to 4)

1	associated with the Inquiry;	1	view of the Commission on any matters of controversy.
2	(2) to consider with the Commission whether, and if	2	The Commission was appointed on 22 October this year
3	so what, lines of inquiry should be pursued;	3	and prior to commencement of its public hearing, it has
4	(3) to consider and decide what evidence is to be	4	been collecting a substantial body of materials,
5	adduced before the Commission;	5	principally from three sources: the Police, the Fire
6	(4) to question witnesses at oral hearings;	6	Services Department and Mardep.
7	(5) to make submissions to the Commission on the	7	I have listed out in my written openings the sort of
8	subject matter of the Inquiry, on law and on the	8	materials obtained from these various sources.
9	evidence. These submissions will be made openly and	9	Significantly the Police materials consist of police
10	there will be opportunities for other involved parties	10	statements given by passengers on various vessels
11	to comment on them, but we must stress that it is	11	Lamma IV, Sea Smooth, Lamma II and other what I may
12	entirely a matter for the Commission whether to accept	12	call bystanders or other witnesses who had relevant
13	or reject our submissions or indeed the submissions of	13	information to give; voice records of 999 calls; FSD
14	any other party.	14	officers' statements; and various other miscellaneous
15	The ultimate task of compiling the report to the	15	documents, like photographs, information about the
16	Chief Executive is exclusively that of the Commission.	16	deceased, et cetera, and police notebooks and documents
17	I must emphasise that our role is not that of	17	seized from the owners.
18	a prosecutor, who has a particular case to prove against	18	Mardep has provided photographs and importantly
19	particular parties. In considering what evidence to	19	a DVD containing video and audio records of vessel
20	call, or what lines of inquiry to pursue, or what	20	movements and communications captured by the system at
21	questions to ask in the course of this hearing, we are	21	what's called the Vessel Traffic Centre, VTC. Mardep
22	not constrained by any preconceived bias or perceptions	22	also provided various documents about the vessels in
23	in favour of or against any particular party or any	23	question, certificate and licences, plans, drawings,
24	particular cause.	24	matters of that nature.
25	The procedure of this Inquiry is inquisitorial in	25	The Fire Services Department has provided records
	Page 6		Page 8
1	_	1	
1 2	nature, meaning investigative in nature, and so lines of inquiry and potential allegations or criticisms against	1 2	about responses that evening, about emergency services
3			and the rescue mission, and the Commission also obtained
	particular persons could very well change as and when	3	various charts from the Hydrographic Office and also
4 5	items of evidence are unearthed, presented, bolstered or	4	weather information, visibility reports, originating
	discredited in the course of the hearing. But the	5	from the Hong Kong Observatory.
6	Commission will endeavour at all times to make sure that	6	The Commission has appointed two experts. One is
7	persons potentially subject to criticism are always	7	Captain Nigel Robert Pryke, an Elder Brother of Trinity
8	afforded a fair opportunity of dealing with any	8	House in London. He was appointed on 19 November to
9	potential adverse comments.	9	compile reports to assist the Commission in discharging
10	Mr Clive Grossman SC, and Mr James McGowan, on the		its duties under the terms of reference.
11	instructions of Reed Smith Richards Butler, represent	11	Captain Pryke provided his first report on
12	the owners and crew of the Lamma IV. Mr Charles Sussex	12	4 December. Over the weekend, Captain Pryke signed off
13	SC, now on my left, two seats to my left, together with	13	a supplemental report, which was given to the parties on
14	his learned junior, Mr Richard Zimmern, behind him,	14	Monday, 10 December, consequential upon further
15	represent the owners and crew of the Sea Smooth on the	15	documents supplied by the Department of Justice on
16	instructions of solicitors Messrs Holman Fenwick Willan.	16	behalf of Mardep, consisting of radar track records
17	Mr Johnny Mok SC, together with Ms Eva Sit and	17	generated by equipment in Mardep.
18	Frances Lok, to my far left, represent the interests of	18	On 6 December, the Commission further appointed
19	the Marine Department, shortform "Mardep"; the Fire	19	another expert witness, Dr Anthony Armstrong, who is
20	Services Department, FSD; and the Commissioner of	20	a fellow of the Royal Institute of Naval Architects, to
21	Police, on the instructions of the Department of	21	assist the Commission in discharging its duties. He
22	Justice.	22	will address issues of ship construction, and he will be
23	I make this opening address as counsel for the	23	providing his written report in due course.
24	Commission, but I should emphasise that what I say must	24	The Chief Executive set a particular timeframe in
25	not be understood or taken as expressing or implying the	25	the terms of reference when appointing the Commission,

Page 5

Day 01

	Page 9		Page 11
1	and while the Commission's efforts to collect relevant	1	evening.
2	materials will continue, it proposes to start taking	2	I shall now endeavour to give a brief summary of the
3	oral evidence in this Inquiry now, with the immediate	3	sequence of events, again insofar as they are relatively
4	focus on the first item in its terms of reference,	4	free from controversy.
5	namely the causes of the incident. That can	5	In the evening of 1 October, the 8 o'clock ferry
6	conveniently be divided into two questions: (i) why did	6	departing from Central to Yung Shue Wan was the Sea
7	the collision occur? And (ii) why did the Lamma IV sink	7	Smooth. According to the radar data, she was under way
8	so quickly?	8	by 8.04 pm at the latest. She was carrying four crew
9	Before I commence adducing evidence, it would assist	9	members and at least 62 passengers. Two of Hongkong
10	the Commission and the public to have a broad overview	10	Electric's launches, the Lamma II and the Lamma IV, took
11	of the facts and events surrounding the Commission	11	off from the typhoon shelter shortly thereafter to take
12	insofar as they are relatively free from controversy.	12	the Hongkong Electric staff and their families and
13	We should all see a chart on the monitor in front of	13	friends to watch the National Day fireworks in the
14	us. The first point to note is an area on Lamma Island	14	Harbour.
15	called Shek Kok Tsui. Shek Kok Tsui is a point at the	15	Lamma IV cleared her berth at the Lamma Power
16	north-west extremity of Lamma Island. There is a reef	16	Station typhoon shelter at about 8.16. It had three
17	with a rock near Shek Kok Tsui, and there is a white	17	crew members and was carrying 127 passengers, including
18	light beacon, a white tower, about 1 cable, which is	18	the crew. By the time the Lamma IV cleared her berth
19	one-tenth of a nautical mile, north-west from that	19	and was underway, the Sea Smooth was well within two
20	point. That light or light beacon is sometimes	20	nautical miles of the Lamma IV. By 8.17, they should
21	colloquially referred to as the Shek Kok Tsui	21	have been within sight of one another by radar and also
22	"lamppost", the "(Chinese spoken)".	22	visually.
23	Yung Shue Wan is entered between Shek Kok Tsui and		At about 8.20 pm, off Shek Kok Tsui, the Sea Smooth
24	the Lamma Island Power Station, 9 cables to the south.	24	collided with the Lamma IV. After the collision, the
25	There is a small typhoon shelter on the north side of	25	Sea Smooth disengaged from the Lamma IV, leaving part of
20	Page 10		Page 12
1	Lamma Power Station. The power station is owned by	1	its port bow in the port side of the Lamma IV. It
2	Hongkong Electric.	2	proceeded to Yung Shue Wan. The Lamma IV sank
3	There is a ferry pier in the south part of that bay		
3 4	There is a ferry pier in the south part of that bay, by the village. There's a ferry service between Central	3	stern-first within a few minutes of the collision.
4	by the village. There's a ferry service between Central	3 4	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls
4 5	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated	3 4 5	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering
4 5 6	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public	3 4 5 6	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the
4 5 6 7	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at	3 4 5 6 7	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission.
4 5 6	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public	3 4 5 6	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call
4 5 6 7 8	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west	3 4 5 6 7 8 9	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission.
4 5 6 7 8 9	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in	3 4 5 6 7 8 9	 stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the
4 5 7 8 9 10	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west	3 4 5 6 7 8 9 10	 stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls
4 5 7 8 9 10 11	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October.	3 4 5 6 7 8 9 10 11	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in
4 5 7 8 9 10 11 12	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's	3 4 5 6 7 8 9 10 11 12	 stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The
4 5 6 7 8 9 10 11 12 13	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have	3 4 5 6 7 8 9 10 11 12 13	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV
4 5 6 7 8 9 10 11 12 13 14	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical	3 4 5 6 7 8 9 10 11 12 13 14	 stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E.
4 5 6 7 8 9 10 11 12 13 14 15	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar	3 4 5 6 7 8 9 10 11 12 13 14 15	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its
4 5 6 7 8 9 10 11 12 13 14 15 16	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system	3 4 5 6 7 8 9 10 11 12 13 14 15 16	 stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And
4 5 6 7 8 9 10 11 12 13 14 15 16 17	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system together with remote long-range daylight camera and	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And many persons on board the Lamma IV fell into the sea or
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system together with remote long-range daylight camera and a remote thermal imager, which I understand was	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And many persons on board the Lamma IV fell into the sea or were trapped inside the vessel. 96 people from the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system together with remote long-range daylight camera and a remote thermal imager, which I understand was responsible for capturing certain images and radar	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And many persons on board the Lamma IV fell into the sea or were trapped inside the vessel. 96 people from the Lamma IV were rescued from the sea and the wreckage by
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system together with remote long-range daylight camera and a remote thermal imager, which I understand was responsible for capturing certain images and radar signals that evening.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And many persons on board the Lamma IV fell into the sea or were trapped inside the vessel. 96 people from the Lamma IV were rescued from the sea and the wreckage by various rescue teams, the Fire Services Department, the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system together with remote long-range daylight camera and a remote thermal imager, which I understand was responsible for capturing certain images and radar signals that evening. According to information supplied by the Hong Kong	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And many persons on board the Lamma IV fell into the sea or were trapped inside the vessel. 96 people from the Lamma IV were rescued from the sea and the wreckage by various rescue teams, the Fire Services Department, the Police and nearby vessels. Nine persons were injured on
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	by the village. There's a ferry service between Central and the Yung Shue Wan ferry pier, and that is operated by Hong Kong & Kowloon Ferry Holdings Ltd. On public holidays in the evenings, the ferry service runs at half-hourly intervals. North-west of Shek Kok Tsui there is the north-west Lamma anchorage. And some ships were anchored there in the evening of 1 October. On the island of Kau Yi Chau, for which we may have to move slightly away from the current chart it's further up. On the island of Kau Yi Chau, 3.3 nautical miles north-west of Shek Kok Tsui, there is a radar station. There is a digital radar surveillance system together with remote long-range daylight camera and a remote thermal imager, which I understand was responsible for capturing certain images and radar signals that evening. According to information supplied by the Hong Kong Observatory on 1 October between 8 and 9 pm, visibility	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	stern-first within a few minutes of the collision. The Commission has obtained records of the 999 calls that were made, and I should say that we are considering producing the logs of these 999 calls to assist the Commission. The evidence will show that the first timed 999 call was at about 8.21 pm from a passenger on board the Lamma IV. It would appear from subsequent 999 calls that the Lamma IV sank in less than five minutes. The Fire Services Department in its investigation report, in its incident summary, put the place where the Lamma IV submerged at 22 degrees 14.161N and 114 degrees 6.159E. The vessel came to rest almost vertically with its bow and forward section protruding above the water. And many persons on board the Lamma IV fell into the sea or were trapped inside the vessel. 96 people from the Lamma IV were rescued from the sea and the wreckage by various rescue teams, the Fire Services Department, the Police and nearby vessels. Nine persons were injured on board the Sea Smooth and they were conveyed by the Sea

	Page 13		Page 15
1	located and removed at around 5.10 pm the next day.	1	assessment of the cause of the collision.
2	Eight more persons were certified dead upon arrival at	2	After what one may call the technical evidence and
3	hospitals and a girl was certified dead on 5 October.	3	the expert evidence, the Commission will proceed to
4	A total of 39 people on board the Lamma IV are known to	4	present evidence from passengers on the vessels
5	have died. Eight of them were children.	5	Lamma IV, Sea Smooth, and also Lamma II who
6	Among the mass of materials collected by the	6	experienced or witnessed the incident first-hand.
7	Commission, a category of evidence is of particular	7	Over 100 passengers from Lamma IV, Sea Smooth and
8	significance and that is radar and electronic records of	8	Lamma II have been interviewed by the Police, but the
9	vessel movements which will be produced by witnesses	9	Commission does not propose to call all of them as
10	from Mardep and also the Police, which show the track	10	witnesses. The counsel team and solicitors have
11	and speed of the two vessels leading up to the	11	selected passengers from the three vessels with a view
12	collision. Such evidence, more specifically, includes	12	to presenting a fair view of what those on board the two
13	live radar images captured by radars. Radar information	13	vessels that evening, as well as those on board the
14	is sometimes supplemented by information derived from	14	Lamma II, have or have not seen, have or have not felt,
15	what's called the AIS transponder system transmitting	15	have or have not heard. In particular, for Lamma IV
16	from vessels which carry such a system.	16	passengers, we have tried to call witnesses from
17	In our case, AIS information is available for the	17	a variety of locations, from various decks and various
18	Sea Smooth but not available for the Lamma IV, because	18	sides, so as to give as full a picture as possible as to
19	the Lamma IV was not equipped with the relevant	19	the events on board the vessel that evening.
20	equipment.	20	These witnesses will be expected to give evidence on
21	1 1	21	certain areas which would be of interest to the
22	From this raw data coming from the radars, equipment in Mardep and equipment in the Marine Police have each	22	Commission and to the public. For example, whether
23	produced their own track reports, in text and numerical	23	there had been safety demonstrations and warnings given
23	form, showing the speed, the position and the course of	24	on board, especially the Lamma IV, prior to her
24	each vessel from the time of departure until the time of	24	departure; whether any sound signals were sounded by any
23		23	
	Page 14		Page 16
1	the collision. We will be calling witnesses from Mardep	1	vessels or heard by any passengers prior to the
2	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their	2	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two
2 3	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation	2 3	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision,
2 3 4	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first	2 3 4	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical
2 3 4 5	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses.	2 3 4 5	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after
2 3 4 5 6	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine	2 3 4 5 6	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on
2 3 4 5 6 7	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call	2 3 4 5 6 7	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the
2 3 4 5 6 7 8	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is	2 3 4 5 6 7 8	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the
2 3 4 5 6 7 8 9	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called	2 3 4 5 6 7 8 9	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put
2 3 4 5 6 7 8 9 10	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify	2 3 4 5 6 7 8 9 10	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the
2 3 4 5 6 7 8 9 10 11	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar	2 3 4 5 6 7 8 9 10 11	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink.
2 3 4 5 6 7 8 9 10 11 12	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to	2 3 4 5 6 7 8 9 10 11 12	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to
2 3 4 5 6 7 8 9 10 11 12 13	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness	2 3 4 5 6 7 8 9 10 11 12 13	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic
2 3 4 5 6 7 8 9 10 11 12 13 14	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to	2 3 4 5 6 7 8 9 10 11 12 13 14	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out
2 3 4 5 6 7 8 9 10 11 12 13 14 15	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in	2 3 4 5 6 7 8 9 10 11 12 13 14 15	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to call Captain Pryke, the expert, to comment on the raw	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the port bow, which struck Lamma IV. The first three
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to call Captain Pryke, the expert, to comment on the raw data and the track records and to offer his explanation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the port bow, which struck Lamma IV. The first three photographs are all of the Sea Smooth.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to call Captain Pryke, the expert, to comment on the raw data and the track records and to offer his explanation and opinions about the cause of the collision. Captain	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the port bow, which struck Lamma IV. The first three photographs are all of the Sea Smooth. The next photograph again, it's a closer version
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to call Captain Pryke, the expert, to comment on the raw data and the track records and to offer his explanation and opinions about the cause of the collision. Captain Pryke will also be giving his opinion as to whether the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the port bow, which struck Lamma IV. The first three photographs are all of the Sea Smooth. The next photograph again, it's a closer version of the Sea Smooth. This is taken from the front, and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to call Captain Pryke, the expert, to comment on the raw data and the track records and to offer his explanation and opinions about the cause of the collision. Captain Pryke will also be giving his opinion as to whether the discrepancies in figures between the track reports	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the pot bow, which struck Lamma IV. The first three photographs are all of the Sea Smooth. The next photograph again, it's a closer version of the Sea Smooth. This is taken from the front, and one can see the port bow of the Sea Smooth being
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the collision. We will be calling witnesses from Mardep and the Police to explain the operation of their respective systems and to assist in the interpretation of the records they produced as the Commission's first witnesses. After the witnesses from Mardep and the Marine Police, the Commission will, before proceeding to call Captain Pryke, call a technical witness who is responsible for the equipment. It's a company called HITT. The relevant witness will be expected to testify probably tomorrow. He is responsible for the radar system, supplying the radar system to Mardep and also to the Marine Police. The purpose of calling this witness after the Marine Police and the Mardep witnesses is to explain the possible reason for certain differences in figures in the track reports generated by the systems in Mardep and in the Marine Police. After this witness, the Commission will proceed to call Captain Pryke, the expert, to comment on the raw data and the track records and to offer his explanation and opinions about the cause of the collision. Captain Pryke will also be giving his opinion as to whether the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	vessels or heard by any passengers prior to the collision; the reaction of the crew members on the two vessels in the immediate aftermath of the collision, what might or might not have been said; the physical state of the decks and seats on board the Lamma IV after the collision; also, the situation about life jackets on the vessels, in particular on Lamma IV, about the absence of children's life jackets and also about the ease or difficulty with which life jackets could be put on; and also the chaotic scene that ensued inside the Lamma IV when she began to sink. This is perhaps as good a juncture as any to introduce hopefully some uncontroversial photographic evidence in relation to the two vessels and bring out one point which hopefully, again, should be relatively uncontroversial. Perhaps I should now start with the photo of the Sea Smooth. That depicts that part of the Sea Smooth, the port bow, which struck Lamma IV. The first three photographs are all of the Sea Smooth. The next photograph again, it's a closer version of the Sea Smooth. This is taken from the front, and

4 (Pages 13 to 16)

	Page 17		Page 19
1	That represents the port stern of the Lamma IV, where	1	when things happened. That will hopefully assist in
2	one can see the damage done to the port stern, the open	2	identifying the point in time when the Lamma IV began to
3	deck.	3	sink, and finally sank.
4	This represents the open deck of the Lamma IV. One	4	The significance of the rescue witnesses, especially
5	can see the damage on the deck.	5	those from the Police and the Fire Services Department,
6	This depicts that part of Lamma IV consisting of two	6	is that they produce first-hand evidence as to the
7	holes where it was perforated below the water line. One	7	actual situation in the Lamma IV after it had sunk and
8	can see the two holes. No doubt evidence will be	8	while they were carrying out the rescue mission. In
9	adduced, technical evidence, expert evidence, as to the	9	a way, this evidence would have been given by passenger
10	significance of these openings and the cause of sinking.	10	witnesses but the rescuers' evidence will supplement
11	This is a photograph of what one may call the upper	11	that by explaining the difficulties that they
12	deck. One can see from the floor signs where seats were	12	encountered in carrying out their rescue mission.
13	originally located. As I said, it should be reasonably	13	They would also describe the locations where dead
14	free from controversy that when the Lamma IV began to	14	bodies were found, and that could assist in ascertaining
15	sink, some seats, a number of seats on the Lamma IV, on	15	whether the deaths could have anything to do with the
16	the upper deck, which is what we are looking at, became	16	physical state of the vessel, especially the fact that
17	detached from the floor and flew off. Some passengers	17	seats had fallen off and become detached and possibly
18	are expected to describe this and explain what	18	trapping passengers who were trying to escape.
19	difficulties this caused to them when they were trying	19	After such evidence, the Commission proposes to
20	to escape from the Lamma IV, even with their life	20	recall Captain Pryke to give evidence on what one may
21	jackets on.	21	call part 2 of the Commission's terms of reference:
22	This shows the loose screw. This is where the seats	22	matters concerning ship safety and harbour management.
23	were supposed to be screwed to the floor. That's where	23	It will also call its second expert, Dr Anthony
24	they fell off and became detached.	24	Armstrong, to deal with issues of ship construction
25	That again is a photograph showing where seats were	25	which will be relevant to why the Lamma IV sank so
	Page 18		Page 20
1		1	
	originally supposed to be, and what the area looked like	1 2	quickly, and also the terms of reference concerning the
1 2 3		1	quickly, and also the terms of reference concerning the current system of harbour management and inspection of
2	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor.	2	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships.
2 3	originally supposed to be, and what the area looked like after the seats became detached; all one can see are	2 3	quickly, and also the terms of reference concerning the current system of harbour management and inspection of
2 3 4	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck.	2 3 4	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of
2 3 4 5	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper	2 3 4 5	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible
2 3 4 5 6	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling	2 3 4 5 6	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have
2 3 4 5 6 7	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also	2 3 4 5 6 7	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships.Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own
2 3 4 5 6 7 8	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry	2 3 4 5 6 7 8	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses.
2 3 4 5 6 7 8 9	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break.	2 3 4 5 6 7 8 9	quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships.Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses.One question that has arisen is whether the crew
2 3 4 5 6 7 8 9 10	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence,	2 3 4 5 6 7 8 9 10	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the
2 3 4 5 6 7 8 9 10 11	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the	2 3 4 5 6 7 8 9 10 11	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify,
2 3 4 5 6 7 8 9 10 11 12	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas,	2 3 4 5 6 7 8 9 10 11 12	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons
2 3 4 5 6 7 8 9 10 11 12 13 14 15	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission expects to call another category of witnesses who were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify. But in that event, under the procedure laid down by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission expects to call another category of witnesses who were witnesses involved in the rescue mission, from various	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify. But in that event, under the procedure laid down by the Commission last week, the evidence of such involved
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission expects to call another category of witnesses who were witnesses involved in the rescue mission, from various Government departments the Marine Police and the FSD,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify. But in that event, under the procedure laid down by the Commission last week, the evidence of such involved persons will be led by their counsel. The same
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission expects to call another category of witnesses who were witnesses involved in the rescue mission, from various Government departments the Marine Police and the FSD, for example. 999 telephone recordings are also expected	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify. But in that event, under the procedure laid down by the Commission last week, the evidence of such involved persons will be led by their counsel. The same considerations will apply to witnesses and officers of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission expects to call another category of witnesses who were witnesses involved in the rescue mission, from various Government departments the Marine Police and the FSD, for example. 999 telephone recordings are also expected to be produced, and it would portray the immediate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify. But in that event, under the procedure laid down by the Commission last week, the evidence of such involved persons will be led by their counsel. The same considerations will apply to witnesses and officers of the corporate involved parties, namely the two owners,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	originally supposed to be, and what the area looked like after the seats became detached; all one can see are screwholes on the floor. That is one row of seats remaining in the upper deck. The process I have described so far, of calling technical witnesses, expert witnesses, and also passenger witnesses, is likely to take the Inquiry beyond the Christmas break. Hopefully what may be called the technical evidence, about the radar signals, the track reports, and the expert evidence will be completed before Christmas, obviously subject to any application to defer questioning by the other involved parties, which they have flagged. Passenger witnesses will begin to be called before the Christmas break and continue after the break. After the passenger witnesses, the Commission expects to call another category of witnesses who were witnesses involved in the rescue mission, from various Government departments the Marine Police and the FSD, for example. 999 telephone recordings are also expected	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 quickly, and also the terms of reference concerning the current system of harbour management and inspection of ships. Then, subject to any question of recalling of witnesses for questioning, subject to any possible further lines of inquiry, the involved parties will have the opportunity of giving evidence and calling their own witnesses. One question that has arisen is whether the crew members will testify. Under the Ordinance, the Commission has the power to compel witnesses to testify, and that power in our Commission covers involved persons as well. It covers such persons even though they may be or have already been charged with criminal offences. The Commission has the power to compel their attendance. So, irrespective of whether they volunteer themselves, it always remains an option for the Commission to issue witness summonses to compel their attendance to testify. But in that event, under the procedure laid down by the Commission last week, the evidence of such involved persons will be led by their counsel. The same considerations will apply to witnesses and officers of

5 (Pages 17 to 20)

	Page 21		Page 23
1	arrangements and management of vessels as well as	1	We are also greatly moved by the prompt, efficient
2	harbour management. Again, irrespective of whether the	2	and unreserved support from the hospitals and medical
3	corporate involved parties and Mardep volunteer such	3	services to save precious lives and to care for the
4	witnesses, the Commission has the power to compel their	4	injured; the community, for various expressions of
5	attendance before the Commission, to testify. But these	5	condolence and support, be they memorial gatherings,
6	are matters which will no doubt be a matter of liaison	6	floral tributes, sympathy cards, condolence messages,
7	between the counsel, legal representatives, and the	7	donations or other generous and thoughtful gestures; the
8	lawyers for the various involved parties, and the	8	Li Ka Shing Foundation, for its emergency financial
9	Commission will hear in due course.	9	assistance to the victims' families; and our staff, for
10	So, subject to any matters that the Commission may	10	standing together to support each other through these
11	raise with me or may ask me, that completes my opening	11	difficult and critical times. We are incredibly touched
12	address for the Commission.	12	by the overwhelming outpouring of sorrow, support,
13	THE CHAIRMAN: Thank you very much, Mr Shieh.	13	sympathy and succour. We have truly seen, and
14	Mr McGowan, I see you're in the back of the hearing	14	benefitted from, the best side of Hong Kong people, and
15	room. Would you come forward.	15	we owe all of them our greatest gratitude and respect.
16	MR McGOWAN: Thank you.	16	We, Company and Staff together, are also doing our
17	THE CHAIRMAN: I understand you had a court commitment	17	utmost to help those affected. Following the incident,
18	elsewhere.	18	our staff were immediately in close and continuing
19	MR McGOWAN: Yes. It started at 9 and unfortunately ran on,	19	contact with the affected passengers and their families
20	Mr Chairman.	20	to offer appropriate assistance and support. Emergency
21	Mr Chairman, I am, as I think everybody is aware,	21	financial relief provided by our Company, and those we
22	representing both Hongkong Electric and the crew of the	22	identified as having particular needs were assisted and
23	Lamma IV. The crew of the Lamma IV are employed by	23	supported in their applications for specialist
24	Hongkong Electric.	24	referrals. Professional counselling services were
25	I wish to, on behalf of the managing director of	25	offered and provided to our staff as appropriate.
	Page 22		Page 24
1	Page 22 Hongkong Electric, Mr Tso Kai-sum, address yourselves	1	Page 24 A public donation drive was also initiated by
1 2		1 2	A public donation drive was also initiated by HK Electric and implemented with support from a number
	Hongkong Electric, Mr Tso Kai-sum, address yourselves		A public donation drive was also initiated by
2	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has	2	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we
2 3 4 5	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry,	2 3 4 5	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the
2 3 4 5 6	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our	2 3 4 5	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed
2 3 4 5 6 7	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National	2 3 4 5 6 7	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million.
2 3 4 5 6 7 8	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry	2 3 4 5 6 7 8	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the
2 3 4 5 6 7 8 9	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those	2 3 4 5 6 7 8 9	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have
2 3 4 5 6 7 8 9 10	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our	2 3 4 5 6 7 8 9 10	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have
2 3 4 5 6 7 8 9 10 11	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply	2 3 4 5 6 7 8 9 10 11	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected
2 3 4 5 6 7 8 9 10 11 12	 Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again 	2 3 4 5 6 7 8 9 10 11 12	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues.
2 3 4 5 6 7 8 9 10 11 12 13	 Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends 	2 3 4 5 6 7 8 9 10 11 12 13	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical
2 3 4 5 6 7 8 9 10 11 12 13 14	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured.	2 3 4 5 6 7 8 9 10 11 12 13 14	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense efforts by the Government's rescue team to mobilise all 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that questions as to the what, why and how it happened on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense efforts by the Government's rescue team to mobilise all available resources to save as many lives as possible,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that questions as to the what, why and how it happened on 1 October 2012, are a very necessary part of this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense efforts by the Government's rescue team to mobilise all available resources to save as many lives as possible, and all other departments involved for the various	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that questions as to the what, why and how it happened on 1 October 2012, are a very necessary part of this healing process. It is most important that those
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense efforts by the Government's rescue team to mobilise all available resources to save as many lives as possible, and all other departments involved for the various supporting services in the aftermath. We are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that questions as to the what, why and how it happened on 1 October 2012, are a very necessary part of this healing process. It is most important that those affected, directly or indirectly, should be given the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense efforts by the Government's rescue team to mobilise all available resources to save as many lives as possible, and all other departments involved for the various supporting services in the aftermath. We are particularly grateful to those who risked their own	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that questions as to the what, why and how it happened on 1 October 2012, are a very necessary part of this healing process. It is most important that those affected, directly or indirectly, should be given the answers. Equally, the lessons to be learnt from this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Hongkong Electric, Mr Tso Kai-sum, address yourselves and indeed those attending the Inquiry. Mr Tso has written a letter to yourself, sir, and it reads as follows: "On 1 October 2002 our company, HK Electric's ferry, Lamma IV, manned by our own employed, and carrying our own staff, their families and friends, to the National Day Fireworks Display, was hit by the high speed ferry Sea Smooth near Lamma Island. Very sadly, 39 of those onboard died and many others were injured. Our management, staff, and our families are all deeply saddened by this terrible tragedy. We wish once again to express our condolences to the families and friends of all the deceased and injured. Whilst the last months have been a time of grief and sorrow, we are greatly encouraged by the remarkable care and support from the Government, the community and our staff. Our management and staff appreciate the immense efforts by the Government's rescue team to mobilise all available resources to save as many lives as possible, and all other departments involved for the various supporting services in the aftermath. We are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A public donation drive was also initiated by HK Electric and implemented with support from a number of charitable and commercial organisations to channel the community's financial support to those in need we are extremely grateful to, and touched by, the generosity of all those who, together, have contributed over HK\$6.3 million. We are able to inform both the Commission and the people of Hong Kong that all those hospitalised have been discharged, and most of our staff members have returned to work. Our support for all our affected staff continues. We acknowledge, however, that whilst physical injuries may heal quickly, emotional and psychological traumas may continue for far longer. We sincerely hope that all affected will recover from their shock and distress in due time, and 'move on'. We, as a Company and an Employer, accept that questions as to the what, why and how it happened on 1 October 2012, are a very necessary part of this healing process. It is most important that those affected, directly or indirectly, should be given the

Day 01

	Page 25		Page 27
1	reviewing our own procedures to see how we can best	1	Willan about these matters and also we will be I think
2	improve our company practices, with particular focus on	2	consulting and conferring with the Department of Justice
3	the security and safety of our passengers, our ferries	3	as well, because various matters because they may
4	and our arrangements for company events, with emphasis	4	have their input as to what documents they do not wish
5	on our preparedness for, and response to, times of	5	to be disclosed. But subject to any input by the
6	crisis and emergency.	6	Department of Justice and subject to us taking away
7	The Appointment and now Opening, of this Commission	7	matters in bundle J, for example, information about the
8	of Inquiry, are therefore the most significant and	8	deceased, and other matters such as employment records
9	critical steps [in this process].	9	seized from the owners, we will be giving soft-copy
10	HK Electric welcomes the opportunity to participate	10	documents to the involved parties.
11	in these Hearings, pledges to co-operate fully with the	11	THE CHAIRMAN: Yes.
12	Commission, and will do whatever we can to assist in the	12	MR SHIEH: Hopefully that will ease any future concern.
13	Inquiry. Those who have lost their lives and suffered	13	THE CHAIRMAN: Thank you. We hope counsel can reach
14	injuries, their families and their loved ones, deserve	14	agreement amongst themselves on this issue.
15	no less."	15	Now, Mr Yim, may I ask you to take the oath or the
16	As I've said, Mr Chairman, that's signed by the	16	affirmation.
17	managing director of Hongkong Electric.	17	MR YIM KIT-MING (affirmed in Punti)
18	Thank you.	18	(All answers via interpreter unless otherwise indicated)
19	THE CHAIRMAN: Thank you, Mr McGowan.	19	MR SHIEH: Could I ask whether Mr Yim is going to give his
20	Mr Shieh?	20	evidence in English or Punti? His statement is in
21	MR SHIEH: Mr Chairman, Mr Commissioner. Without further	21	English, and therefore if he proposes to give evidence
22	ado, could I call the Commission's first witness, from	22	in English. Conventionally
23	the Marine Department, Mr Yim Kit-ming.	23	THE CHAIRMAN: It's a matter for you, Mr Yim, whether you
24	THE CHAIRMAN: May I ask the interpreter, would you mind	24	give evidence in Cantonese or English.
25	vacating that seat so that the witness can sit there,	25	A. (In English) I prefer to give
	Page 26		Page 28
			-
1	and if she would be kind enough to occupy the other	1	A. I prefer to give evidence in Cantonese.
1 2	and if she would be kind enough to occupy the other seat. It's just to make it easier for line of sight for	1 2	-
			A. I prefer to give evidence in Cantonese.
2	seat. It's just to make it easier for line of sight for	2	A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come
2 3	seat. It's just to make it easier for line of sight for the Commissioners to see the witness.	2 3	A. I prefer to give evidence in Cantonese.THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms.
2 3 4	seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there	2 3 4	A. I prefer to give evidence in Cantonese.THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms.Feel free to do so if that makes it easier.
2 3 4 5 6	seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower	2 3 4 5	A. I prefer to give evidence in Cantonese.THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms.Feel free to do so if that makes it easier.A. I understand.
2 3 4 5 6	seat. It's just to make it easier for line of sight for the Commissioners to see the witness.There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor?	2 3 4 5 6	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and
2 3 4 5 6 7	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make 	2 3 4 5 6 7 8	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH
2 3 4 5 6 7 8	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the 	2 3 4 5 6 7 8	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you?
2 3 4 5 6 7 8 9	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman 	2 3 4 5 6 7 8 9	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you
2 3 4 5 6 7 8 9 10	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. 	2 3 4 5 6 7 8 9 10	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you?
2 3 4 5 6 7 8 9 10 11	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for 	2 3 4 5 6 7 8 9 10 11	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes.
2 3 4 5 6 7 8 9 10 11	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical 	2 3 4 5 6 7 8 9 10 11 12	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of 	2 3 4 5 6 7 8 9 10 11 12 13	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the Commission has received, subject to matters which were 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes. Q. Can I just tell you what I propose to do with your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the Commission has received, subject to matters which were decided to be entirely irrelevant and which contained 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes. Q. Can I just tell you what I propose to do with your evidence. Subject to anything you may wish to correct
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the Commission has received, subject to matters which were decided to be entirely irrelevant and which contained personal data and information which as a matter of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes. Q. Can I just tell you what I propose to do with your evidence. Subject to anything you may wish to correct or amend in your witness statement, I'm going to ask you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the Commission has received, subject to matters which were decided to be entirely irrelevant and which contained personal data and information which as a matter of sensitivity and also to protect those other persons, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes. Q. Can I just tell you what I propose to do with your evidence. Subject to anything you may wish to correct or amend in your witness statement, I'm going to ask you whether you confirm the contents, because it contains
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the Commission has received, subject to matters which were decided to be entirely irrelevant and which contained personal data and information which as a matter of sensitivity and also to protect those other persons, such as the deceased and also employees of the company 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes. Q. Can I just tell you what I propose to do with your evidence. Subject to anything you may wish to correct or amend in your witness statement, I'm going to ask you whether you confirm the contents, because it contains a good deal of technical matters and I'm not going to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 seat. It's just to make it easier for line of sight for the Commissioners to see the witness. There will, of course, be a short delay, will there not, Mr Shieh, because the witness room is on a lower floor? MR SHIEH: Yes. The waiting area for the witnesses. THE CHAIRMAN: Yes. MR SHIEH: Mr Chairman, Mr Commissioner, perhaps I can make use of this opportunity to deal with something about the hearing bundles which has been raised by Messrs Holman Fenwick Willan. Yesterday in the afternoon, there was a request for hard-copy bundles to be supplied. For practical reasons, it would not be feasible for numerous copies of hard-copy bundles to be supplied. What we suggested, and I've had a word with Mr Sussex about it, is for soft-copy versions of all the documents that the Commission has received, subject to matters which were decided to be entirely irrelevant and which contained personal data and information which as a matter of sensitivity and also to protect those other persons, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I prefer to give evidence in Cantonese. THE CHAIRMAN: Very well. It may well be that when you come to technical terms, you'll want to use English terms. Feel free to do so if that makes it easier. A. I understand. THE CHAIRMAN: Yes, Mr Shieh. Examination by MR SHIEH MR SHIEH: Mr Yim, you have previously signed off and provided a statement dated 28 November 2012. Do you have that in front of you? For the record, it is in what's called the marine bundle 8, page 1873. A. Yes. Q. That witness statement will be projected onto the monitor. It contains five pages, and your signature appears at page 1877, the last page. A. Yes. Q. Can I just tell you what I propose to do with your evidence. Subject to anything you may wish to correct or amend in your witness statement, I'm going to ask you whether you confirm the contents, because it contains

	Page 29		Page 31
1	specific assistance in giving further elaborations or	1	Q. You talked about 13 radars located at different radar
2	explanations.	2	sites which perform the task of detecting and locating
3	A. I understand.	3	targets.
4	Q. Could I just ask you, before you came here to give	4	A. Yes.
5	evidence, have you had a chance of refreshing your	5	Q. Is there any division of labour among these radars? For
6	memory by looking at what you have said in your witness	6	example, for the incident in question on 1 October,
7	statement?	7	would the area in question be within the province of
8	A. Yes.	8	responsibility of a particular radar located at
9	Q. Is there anything you wish to correct or amend in this	9	a particular place?
10	statement?	10	A. Yes. There is a division of labour among the radars,
11	A. Yes.	11	because they are located in different locations within
12	Q. Can you tell us what those areas are?	12	the Hong Kong waters. So, depending on the location on
13	A. On page 4	13	the Hong Kong water of this particular target, it might
14	Q. That's in the bundle page 1876. Yes?	14	be detected or tracked by one or two or three radars.
15	A. Yes. In about the middle of the page, in line 2, the	15	When the Sea Smooth was heading from the Central Pier,
16	words, the characters "SOG" have been typed twice. In	16	it could be detected by the radar on the rooftop of the
17	fact the first "SOG" should be amended to "COG".	17	VTC. But when it proceeded to Lamma Island, it could be
18	Q. Right. So it reads "COG SOG Length in metres"?	18	detected or tracked by the radars on Lantau Island or
19	A. It should be "COG SOG"	19	Kau Yi Chau.
20	Q. "Length in metres".	20	At the site of the incident, it would be tracked or
21	Any other matters requiring correction?	21	detected by the radars at Kau Yi Chau and Shek Kwu Chau.
22	A. No.	22	Q. Let's say if the same target is detected by two radars
23	Q. Do you confirm the contents of this statement as your	23	from different locations, would each radar then generate
24	evidence before this Inquiry?	24	its own data concerning the location, speed and course
25	A. Yes.	25	of that target?
	Page 30		Page 32
1	Q. There are a number of areas on which I would like your	1	A. Yes.
2	assistance in elaborating or explaining.	2	Q. In the various track reports which you have commented
3	You at the material time, 1 October and now, work in	3	on, there are numerous figures giving the longitudinal
4	the Vessel Traffic Centre of the Marine Department; is	4	and latitudinal measurements, et cetera, how would one
5	that correct?	5	be able to know which radar those had emanated from? Or
6	A. Yes.	6	doos it matter because they are supposed to be the
7			does it matter, because they are supposed to be the
	Q. The premises, the office, the location of that centre is	7	same?
8	in Shun Tak Centre, Sheung Wan?	8	same? A. Each radar, when it tracks to certain target, it will
9	in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau	8 9	same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the
9 10	in Shun Tak Centre, Sheung Wan?A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre.	8 9 10	same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software
9 10 11	in Shun Tak Centre, Sheung Wan?A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre.Q. I shall call it the VTC. The VTC operates a vessel	8 9 10 11	same?A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data
9 10 11 12	in Shun Tak Centre, Sheung Wan?A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre.Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct?	8 9 10 11 12	same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the
9 10 11 12 13	in Shun Tak Centre, Sheung Wan?A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre.Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct?A. Yes.	8 9 10 11 12 13	same?A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track
9 10 11 12 13 14	in Shun Tak Centre, Sheung Wan?A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre.Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct?A. Yes.Q. In your witness statement, on the first page, at the	8 9 10 11 12 13 14	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which
9 10 11 12 13 14 15	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. 	8 9 10 11 12 13 14 15	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect
9 10 11 12 13 14 15 16	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. 	8 9 10 11 12 13 14 15 16	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less
9 10 11 12 13 14 15 16 17	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. 	8 9 10 11 12 13 14 15 16 17	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown
9 10 11 12 13 14 15 16 17 18	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits 	8 9 10 11 12 13 14 15 16 17 18	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So
9 10 11 12 13 14 15 16 17 18 19	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits a target and then comes back and is received back by the 	8 9 10 11 12 13 14 15 16 17 18 19	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So some of it will be showing better track quality.
9 10 11 12 13 14 15 16 17 18 19 20	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits a target and then comes back and is received back by the radar, and by this process of continuously sending out 	8 9 10 11 12 13 14 15 16 17 18 19 20	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So some of it will be showing better track quality. Q. So from the track print-out that the whether the
9 10 11 12 13 14 15 16 17 18 19 20 21	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits a target and then comes back and is received back by the radar, and by this process of continuously sending out signals, hitting a target and coming back, the radars 	8 9 10 11 12 13 14 15 16 17 18 19 20 21	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So some of it will be showing better track quality. Q. So from the track print-out that the whether the Marine Department produced it or the Police produced it,
9 10 11 12 13 14 15 16 17 18 19 20 21 22	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits a target and then comes back and is received back by the radar, and by this process of continuously sending out signals, hitting a target and coming back, the radars will be able to form a pattern of signals which will 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So some of it will be showing better track quality. Q. So from the track print-out that the whether the Marine Department produced it or the Police produced it, it won't actually tell you which radar generated it?
9 10 11 12 13 14 15 16 17 18 19 20 21	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits a target and then comes back and is received back by the radar, and by this process of continuously sending out signals, hitting a target and coming back, the radars will be able to form a pattern of signals which will identify where a target is or the way it's moving. 	8 9 10 11 12 13 14 15 16 17 18 19 20 21	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So some of it will be showing better track quality. Q. So from the track print-out that the whether the Marine Department produced it or the Police produced it, it won't actually tell you which radar generated it? A. No, it can't be told. We can't tell from the print-out.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 in Shun Tak Centre, Sheung Wan? A. Yes. It is located on the outer ferry pier of the Macau Ferry wharf at Shun Tak Centre. Q. I shall call it the VTC. The VTC operates a vessel traffic services system; correct? A. Yes. Q. In your witness statement, on the first page, at the bottom, it describes the six components of the system. The first subsystem is called the radar subsystem. A. Yes. Q. In layman terms, a radar sensor or the signal hits a target and then comes back and is received back by the radar, and by this process of continuously sending out signals, hitting a target and coming back, the radars will be able to form a pattern of signals which will identify where a target is or the way it's moving. That's a rather layman way of explaining it; right? 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 same? A. Each radar, when it tracks to certain target, it will emanate its own track data which would be sent to the central processor at the Centre. There is the software in the central processor. It will compare the data emanated from different radars, and choose from it the most reliable data and then show it up in the track data. Whether it doesn't really matter from which radar it was sent, because as long as the radars detect a certain target, the data shown should be more or less the same. It's only that some radars, the data shown will be less stable and some will be more stable. So some of it will be showing better track quality. Q. So from the track print-out that the whether the Marine Department produced it or the Police produced it, it won't actually tell you which radar generated it?

Day	01	
-----	----	--

	Page 33		Page 35
 system. It's item 3 in the six subsystems. AIS basically depends on a particular version equipped itself with equipment called AIS is that correct? A. Yes. Q. The equipment on board a vessel would seabout its name, its length and breadth, as version course and speed? A. Yes. Q. That information emanates from the ship 11 A. Yes. Q. This information would be received by we called the AIS base stations? A. Yes. Q. The information would again get back to the VTC, and you say they would be fused radar tracks and shown on the display sub 18 A. Yes. Q. Can I just ask you this. It's best if we we actually look at the track record produced Can I trouble you to look at marine bundle 	essel having transponders; send out signals well as its ? the equipment in the equipment in the equipment in the system? 1 rre to by Mardep. 2	8 9 10 11 12 13 14 15 16 17 18	 Page 35 print-out, going straight for numerous pages, that has nothing to do with the data from AIS? The AIS data is completely separate; that's correct? In other words, the data here does not take into account anything we see from the AIS coming from the Sea Smooth; is that correct? A. Yes. Q. It is purely radar, not AIS? For AIS, we have to look to the charts that we have just seen, the set of documents that we looked at sideways? A. Yes. Q. Because the Lamma IV does not have any AIS equipped, so in terms of the Lamma IV, the only data about course, speed, that is generated on the Mardep print-out system is the radar data with the label 7622, which we can find at page 2040 onwards. Is that correct? If you look at page 2040. The time is 20:17:35 onwards. A. Yes. Q. Can I also ask you this: if one were to try to do a plotting of the trajectory of the two vessels by using such data, would it be better and more reliable to
22 disclosure of documents by the Department	nt of Justice, 2	21 22 23	actually use the radar data for both the Sea Smooth and
 and that was the document that we all rece Thursday. If you look at, in terms of internal page 	2	23 24 25	the Lamma IV rather than to use AIS data from Sea Smooth with radar data from Lamma IV? Because for the former, at least the source is the same: radar?
	Page 34		Page 36
 page 2054. If you look at this set of inform should appear sideways like this (indicates) A. Yes. Q. This, as I understand, because I can see the and length and breadth and vessel type and would appear to be a collection of data whi received from the transponder on board the that's correct? A. Yes. Q. Whereas if you look at the same bundle, th and turn to page 2042. I'm looking at a pag label on the left-hand column which carries 786. The start time is 20:04:36. A. Yes. Q. The format of this suggests to me that this it attaches a particular label with a number correspond with what you have described in statement as basically the radar system attaches a label, a number, to a particular target. 786 	ation, it ation, it e vessel name callsign, ch was Sea Smooth; e with the the number because seems to n your witness ching 1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. From the standpoint of the VTS system, since the maintenance of the radar was responsible by the Marine Department, so we had more confidence in adopting the data from the radar. As for the AIS, since it emanated from the transponder on board the vessels, we are not sure about its accuracy. So we have more confidence in the radar data. The algorithm of the radar system is different from the tracking of the AIS system, because the AIS system was applied for faster and more manoeuvring vessels. So, in the case of the faster and more manoeuvrable vessels, the AIS data is a good reference. Because the radar tracking algorithm is mostly applied in larger ocean-going vessels and larger river-trade vessels, so it can provide more stable data. So while tracking a certain vessel, it might have to take more radar scans in order to trace the change of the vessel. THE CHAIRMAN: Before you go on, Mr Yim, could you help me with one matter of detail, dealing with the AIS data,
 number given by your system to Sea Smoot correct? A. Yes. 	th; that's 2 2 2	20 21 22	page 2054. This is information that's transmitted, in this case, from Sea Smooth. A. Yes.
 Q. What I am interested in knowing is that th see in this print-out which tells people as fr onwards the position and COG and SOG of 	om 8.04 pm 2		THE CHAIRMAN: Is the information MR SHIEH: In the expert bundle it would be page 337, because there are problems with page numbering. I'm 9 (Pages 33 to 36

	Page 37		Page 39
1	just informing the parties.	1	a more specific commentary on the individual features.
2	THE CHAIRMAN: Very well. For current purposes, just stay	2	Perhaps that would be convenient moment.
3	on that page.	3	THE CHAIRMAN: Mr Yim, we are going to take a 20-minute
4	Dealing with the coordinates of latitude and	4	break so we'll resume at 11.50 am by that clock.
5	longitude that are detailed here in the columns, does	5	Can I ask that counsel put their heads together
6	that information come from the GPS on board the Sea	6	about the timetable for the production of material by in
7	Smooth?	7	particular Hongkong Electric in response to the request
8	A. It should be, because the AIS needs a GPS system in	8	of the letter from the solicitors assisting the
9	order to input the position into the AIS transponder.	9	Commission.
10	THE CHAIRMAN: So the answer is yes, it comes from on board	10	MR SHIEH: Yes.
11	Sea Smooth from its GPS system?	11	THE CHAIRMAN: 20 minutes.
12	A. Yes.	12	(11.30 am)
13	THE CHAIRMAN: And then it transmits that information by	13	(A short break)
14	VHF; is that right? VHF radio?	14	(11.50 am)
15	A. Yes.	15	THE CHAIRMAN: Yes, Mr Shieh.
16	THE CHAIRMAN: The calculations that are made as to SOG and		MR SHIEH: Perhaps this is an appropriate juncture to show
17	COG, speed over ground and course over ground, is that	17	the actual video that this witness commented on. But
18	information that is provided from Sea Smooth?	18	can I just put us on the map of his witness statement.
19	A. Yes.	19	If you look at page 3 of your witness statement, at
20	THE CHAIRMAN: Is that based on a calculation depending on	20	the bottom, you've said:
21	the latitude and longitude given between different	21	"Interpretation of Items 1 to 8."
22	points?	22	I think items 1 to 8 are items which the
23	A. As far as I understand, yes.	23	Commission's solicitors have asked for comments from
24	THE CHAIRMAN: Thank you.	24	you. Items 1 to 4 are four videos, and we are now going
25	MR SHIEH: It's around about time for the usual mid-morning	25	to look at these four videos.
	Page 38		Page 40
1	break, but can I just ask you one question before we	1	I think the first video that we wish you to look at
2	take a break, and then after the break I'm going to ask	2	is the video of the full course.
3	you to look at the actual radar display that was	3	(Video played)
4	captured. There are four videos that you have commented	4	This is Victoria Harbour.
5	on.	5	A. Yes.
6	In relation to the video display, the radar	6	Q. This is supposed to show the movement of Sea Smooth from
7	trajectory provided by Mardep, am I correct in	7	leaving Central Pier at around 8.04 pm.
8	understanding that, again in the same as what you have	8	A. Yes.
9	just said, for the radar data, Mardep generated that	9	Q. If we watch it for another 15 minutes, we will get to
10	data by relying exclusively on the radar data? So in	10	the point when it collided with Lamma IV.
11	producing the video, again, Mardep has operated only on	11	A. Yes.
12	the basis of the radar signals? Is that correct?	12	Q. Right. In your witness statement you talked about AIS
13	A. No.	13	label being able to be seen on this video. Is that the
14	Q. Can you tell us which part of the videos involved	14	yellow patch of words that we see in the middle of the
15	utilising AIS data?	15	harbour? Now it's green.
16	A. In the video, the Sea Smooth shows the AIS label. That	16	A. Yes.
17	means it has received the AIS data.	17	Q. The top part says "Sea Smooth", so that would be the
18	Q. I understand there are bits that we will see which say	18	ship's name?
19	"Sea Smooth", but in terms of the actual trajectory,	19	A. Yes.
20	that is based on the radar signals; is that correct?	20	Q. There is a plus sign in front of the words "Sea Smooth".
21	The movement.	21	That means that this ship carries AIS transponder?
22	A. Yes. Yes, we can see that the radar echoes come solely	22	A. Yes.
23	from the radar.	23	Q. Then in the next row, we have the first number well,
24	MR SHIEH: Thank you. Perhaps after the mid-morning break		it changes 293.4. Basically the first item is the
25	you can actually look at the videos and you can give	25	course over ground.

	Page 41		Page 43
1	A. Yes.	1	THE CHAIRMAN: Thank you.
2	Q. The next item, speed over ground, and then length and	2	MR SHIEH: Perhaps I could just ask about one term of
3	then breadth; that is the content of the second row?	3	translation.
4	A. Yes.	4	In some of the VHF call recordings that we have
5	Q. This is all data which is generated from or originated	5	heard, we have heard of this concept of "hoi si pin ma".
6	from the AIS transponder on board the Sea Smooth?	6	Is that MMSI?
7	A. Yes.	7	THE INTERPRETER: (Chinese spoken).
8	Q. The third row, it starts with "U"; it means "underway"?	8	MR SHIEH: We have heard this phrase "hoi si pin ma" in some
9	A. Yes.	9	of the recordings. Is "hoi si pin ma" the same as MMSI?
10	Q. Then "L" is "low accuracy"?	10	A. No. As far as I understand, no.
11	A. Yes.	11	Q. Right. So who assigns the MMSI number?
12	Q. Low accuracy of what?		A. The MMSI should be allocated by the Office of
13	A. The accuracy of the GPS.	13	Communications Authority.
14	Q. The accuracy of the GPS on board the vessel?	14	THE CHAIRMAN: That's OFTA?
15	A. Yes. It is only a common GPS and not a DGPS, which	15	A. (In English) Previously OFTA.
16	means differential global positioning system.		MR SHIEH: The fifth row basically simply gives you the type
17	Q. After that, we have	17	of ship, and that is it's a high-speed craft, HSC. It's
18	THE CHAIRMAN: Before you move on, that's low accuracy as to		item 4. Number 40 denotes that it's a high-speed craft.
19	the coordinates of latitude and longitude?	19	It's a code.
20	A. Yes.		A. Yes.
20	THE CHAIRMAN: Thank you.	20	
22	MR SHIEH: The "low accuracy" from your witness	21	Q. Then we have the antenna position sorry, timestamp.
	· ·		Timestamp; it's 20:14:28.
23 24	statement, there's a bracket which says larger than	23	A. Yes.
24	10 metres. Can you explain that, your description of "low accuracy"?	24 25	Q. Then antenna position, followed by transponder type, in the last row?
2.5	·	23	
	Page 42		Page 44
1	A. "Low accuracy" means the average position accuracy is	1	A. Yes.
2	more than 10 metres.	2	Q. All this information that we see in this cluster on the
3	Q. So put very crudely, it could misdescribe its position	3	display all came from the AIS system; correct?
4	by more than 10 metres? It can inaccurately describe	4	A. Yes.
5	its position by more than 10 metres?	5	Q. But in terms of the actual track, showing the actual
6	A. Yes.	6	track that the Sea Smooth had travelled in the video
7	Q. The last item on that row is longitude and latitude. We	7	that we have just seen, in following the movement, the
8	can see "North" and "East". The last item and longitude	8	track, this display is actually based on the radar
9	and latitude, on the third row?	9	signals, not the AIS signals that came from the vessel;
10	A. Yes.	10	is that correct?
11	Q. The fourth row would be the callsign, ship name, and the	11	A. Yes.
12	MMSI?	12	Q. Thank you. Can I now stop this video and move on to
13	A. Yes.	13	item 2, the second video.
14	Q. Can you give me the full name for MMSI?	14	(Video played)
15	A. (In English) Maritime Mobile Service Identity.	15	You can see Lamma Island.
16	THE CHAIRMAN: Is that a unique number for that vessel?	16	A. Yes.
17	A. Yes.	17	Q. Top left-hand corner, we see again the green patch, the
18	THE CHAIRMAN: And the callsign, is that the VHF radio	18	information there?
19	callsign?	19	A. Yes.
20	A. It should be the callsign of this vessel. It is for the	20	Q. Again, this information giving the green information
21	identification of this vessel.	21	again comes from the AIS, which is the same that we saw
	THE CHAIRMAN: Is it the same as the VHF radio callsign?		in the earlier video?
22			
23	A. When the VTS operator calls the ship, they will use this	23	
	A. When the VTS operator calls the ship, they will use this callsign to identify the ship. But I'm not sure whether it is called the VHF callsign.	23 24 25	Q. But then in the middle, we see a purple patch?

	Page 45		Page 47
1	Q. We see "Sea Smooth", and then "7622"?	1	these two ships keep moving forward until they reach
2	A. Yes.	2	a point where they are closest to each other. In the
3	Q. "7622" is the label given by Mardep's radar system to	3	screen, we see that the short white line, it is actually
4	this particular target?	4	the distance and it is calculated according to the speed
5	A. Yes.	5	and the course of the ships.
6	Q. It's Lamma IV. Sorry, it's my mistake. 7622 is	6	We can see from the screen that the short white line
7	Lamma IV. I've made a mistake.	7	measures 12 metres, or 0.01 nautical miles. So
8	Actually, if you look at the white patch, it says	8	according to the TCPA on the top number, in the first
9	"7622". That is actually Lamma IV's label. Sorry, I've	9	column, if these two ships continue to travel at the
10	misled you.	10	same speed and direction, they will reach the CPA point
11	This actually is the moment of collision.	11	after 0.18 seconds.
12	Why would the 7622 label appear in that purple patch	12	THE CHAIRMAN: That's 0.18 minutes?
13	behind the name of "Sea Smooth" that we have just seen?	13	A. Sorry. It should be 0 minutes, 18 seconds.
14	Can we rewind it to the beginning of this video.	14	THE CHAIRMAN: It's expressed as seconds, not as
15	Can we pause it here.	15	a percentage of a minute? It's seconds, is it?
16	A. The purple patch can be interpreted that way. In the		A. (In English) Yes. Not a percentage of a minute; it's
17	first column, the first group of numbers showing 00:18	17	a second.
18	is the TCPA, which means the time to the closest point	18	THE CHAIRMAN: Thank you. So it's a projection if
19	of approach. The middle number, that is 12, means the	19	everything stays the same?
20	CPA, which means the closest point of approach in	20	A. Yes.
21	metres. The third number, showing 0.01, is the CPA in	21	THE CHAIRMAN: As things were at that moment in time, it was
22	nautical miles. And the centre column, showing the name		a 12-metre CPA, closest point of approach?
23	of "Sea Smooth". And then the centre column, in the	23	A. Yes. Yes, at that moment. Yes, but the system will
24	centre of the line, showing 228, it denotes the distance	24	continue to make calculation. So in the next moment, it
25	of Sea Smooth from the CPA in metres. And the lowest	25	will come up with different CPA distance according to
	Page 46		Page 48
1	number shows the Sea Smooth from the point of CPA in	1	the speed and direction of the vessels.
2	nautical miles.	2	MR SHIEH: Yes, because it is a prediction as of
3	The third column, showing the number 7622, it shows		a particular point in time, based on the course and
4	the check number of this target ship, 7622. And the	4	speed recorded or perceived at that particular point in
5	number in the centre showing 111, it denotes the	5	time; correct?
6	distance of this target ship, 7622, from the CPA in	6	A. Yes.
7	metres. As for the lowest number, 0.06, it shows the	7	Q. And the white patch in the bottom right-hand corner,
8	position of the target ship, 7622, from the CPA in	8	that pertains to Lamma IV?
9	nautical miles.	9	A. Yes. 7.722 mould be the lebel since to Lemma W2
10	Q. Thank you. That actually is a further elaboration,	10	Q. 7622 would be the label given to Lamma IV?
11 12	really, of what you said at the bottom of page 4 of your	11 12	A. Yes.
12	statement going on to page 5 of your statement; is that correct?	13	Q. The next row would be the one you have corrected, COG followed by SOG and length in metrac?
13 14	A. Yes.	14	followed by SOG, and length in metres?
14 15	Q. Can you explain further this concept of the closest	15	A. Yes, it's COG and SOG and also the length of the vessel in metres.
15 16	point of approaching? How did the system in the VTC	16	Q. The third row gives the ID of the vessel, "7622",
10 17	actually arrive at the closest point of approaching?	17	followed by the length and breadth as detected by the
18	Based on what information did it calculate this closest	18	radar?
19	point of approaching?	19	A. Yes.
20	THE CHAIRMAN: He'd like to have the video display?	20	THE CHAIRMAN: Expressed in what unit?
20	MR SHIEH: He'd like to have the video display?	20	A. (In English) In metres.
		22	THE CHAIRMAN: Thank you.
22	I think it's the middle row of the first column		
22 23	I think it's the middle row of the first column. A Yes The calculation of the VTS is such that it is		-
23	A. Yes. The calculation of the VTS is such that it is	23	MR SHIEH: And the last row, track number again?
			-

	Page 49		Page 51
1	the echo received by the radar and not the actual length	1	dialogue between the VTS operator and Sea Smooth on
2	and breadth. There might be some difference the	2	channel 14.
3	there might be discrepancy from the real length and	3	MR SHIEH: Could we now continue playing the video.
4	breadth. Because the radar can pick up different length	4	(Video played)
5	and breadth from different aspects.	5	I think at this juncture, the volume has to be muted
6	Q. Thank you. This is in fact a more detailed elaboration	6	because it involves disclosing a mobile phone number.
7	of what you've said in the middle of page 4 of your	7	But the playing of the video can perhaps continue.
8	witness statement; correct?	8	Mr Chairman, and perhaps for the benefit of the
9	A. Yes.	9	involved parties, there is actually a transcript both in
10	Q. Right. Can I now move on to look at the third video.	10	Chinese and English of the VHF conversation that we have
11	(Video played)	11	just heard.
12	Again, at the top left-hand corner we see the same	12	THE CHAIRMAN: Could you give me the reference?
13	AIS information from the Sea Smooth that we have seen in		MR SHIEH: It's in bundle M1, marine bundle 1, page 170-2
14	the previous two videos.	14	down to page 170-7. That's the Chinese one. The
15	A. Yes.	15	English translation of the same conversation is marine
16	Q. In the bottom right-hand corner there's a white patch,	16	bundle 1, page 170-8 down to page 170-12.
17	"7622". That gave the information about Lamma IV that	17	THE CHAIRMAN: Thank you.
18	again we have seen in the previous video.	18	MR SHIEH: Following the discussion this morning, soft-copy
19	A. Yes.	19	bundles of everything, including the transcript, will be
20	Q. Perhaps we can pause it here. You can see four purple	20	given. This is the actual transcript which would be in
21	rows of figures.	21	the soft-copy bundles that will be distributed to the
22	A. Yes.	22	parties.
23	Q. That, I understand, describes the bearing and distance	23	THE CHAIRMAN: Yes. Thank you.
24	between the vessels. Perhaps you can explain the	24	MR SHIEH: Mr Yim, is it correct that all these four videos
25	significance of each item.	25	actually depict the same course, except that each video
	Page 50		Page 52
1	Page 50 A In the first row, 173.8, it shows the bearing as	1	Page 52
1	A. In the first row, 173.8, it shows the bearing as	1	focuses on a particular matter? So the first
2	A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the	2	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth
2 3	A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the	2 3	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second
2 3 4	A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as	2 3 4	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different
2 3 4 5	A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622.	2 3 4 5	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth
2 3 4 5 6	A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees.	2 3 4 5 6	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show
2 3 4 5 6 7	A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is	2 3 4 5 6 7	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair
2 3 4 5 6 7 8	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the 	2 3 4 5 6 7 8	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos?
2 3 4 5 6 7 8 9	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. 	2 3 4 5 6 7 8 9	focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video
2 3 4 5 6 7 8 9 10	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance 	2 3 4 5 6 7 8 9 10	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point
2 3 4 5 6 7 8 9 10 11	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. 	2 3 4 5 6 7 8 9 10 11	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier.
2 3 4 5 6 7 8 9 10 11 12	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by 	2 3 4 5 6 7 8 9 10 11 12	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as
2 3 4 5 6 7 8 9 10 11 12 13	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? 	2 3 4 5 6 7 8 9 10 11 12 13	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on
2 3 4 5 6 7 8 9 10 11 12 13 14	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted
2 3 4 5 6 7 8 9 10 11 12 13	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate 	2 3 4 5 6 7 8 9 10 11 12 13	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separatewell, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) I think we should have the audio. Perhaps we pause 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would actually have got radar data which reflected off Sea
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) I think we should have the audio. Perhaps we pause here first. The name of this video is called 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) I think we should have the audio. Perhaps we pause here first. The name of this video is called "Zoom.In_2018-2031. Can you just briefly explain to us 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would actually have got radar data which reflected off Sea Smooth as well; that's correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) I think we should have the audio. Perhaps we pause here first. The name of this video is called "Zoom.In_2018-2031. Can you just briefly explain to us what this video is intended to depict? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would actually have got radar data which reflected off Sea Smooth as well; that's correct? A. Yes. Q. In the same way as radar data, radar signals actually
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) I think we should have the audio. Perhaps we pause here first. The name of this video is called "Zoom.In_2018-2031. Can you just briefly explain to us what this video is intended to depict? A. It is a zoomed-in version of the track of the two 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would actually have got radar data which reflected off Sea Smooth as well; that's correct? A. Yes. Q. In the same way as radar data, radar signals actually received or obtained from Lamma IV which actually were
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. In the first row, 173.8, it shows the bearing as measured from the north as seen by Sea Smooth, of the target ship, 7622. As for the number 353.8 on the second row, it shows the bearing of Sea Smooth as measured from the north, as seen by target ship 7622. Both numbers were shown in degrees. The third row, the number on the third row, that is 1492, it denotes the distance between Sea Smooth and the vessel 7622 at that moment. It was measured in metres. The number 0.806 on the fourth row denotes the distance between the two ships in nautical miles. Q. The analysis of this data is an exercise performed by equipment in the VTC, as part of Vessel Traffic System? A. Yes. Q. I notice that in this display, there is no separate well, perhaps I'll scrap that. Can I move on to the fourth video. (Video played) I think we should have the audio. Perhaps we pause here first. The name of this video is called "Zoom.In_2018-2031. Can you just briefly explain to us what this video is intended to depict? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 focuses on a particular matter? So the first full-course video shows the entire journey of Sea Smooth from Central down to the point of collision; the second and third videos show the same course but with different information shown on the display; whereas the fourth video, again, same course, but simply zooming in to show the point collision and its aftermath. Is that a fair way of putting these four videos? A. Yes, but I would like to add that the first video depicts the full course from Central Pier to the point of collision, and then back to the Yung Shue Wan pier. Q. Just a point of interest. In these videos, as far as Sea Smooth is concerned, we know that the green patch on the top left-hand corner displaying data transmitted from the AIS transponder from the Sea Smooth, that is displayed on the screen. A. Yes. Q. The VTS, the system in Mardep, the radars, would actually have got radar data which reflected off Sea Smooth as well; that's correct? A. Yes. Q. In the same way as radar data, radar signals actually

	Page 53		Page 55
1	A. Yes.	1	Q. This records the radar data?
2	Q. So am I correct in thinking that the fact that the video	2	A. Yes.
3	that we have seen only showed the AIS data is simply	3	Q. If you move on about five pages, down to page 315, in
4	a matter of choice? Because if the compiler of the	4	the middle, we begin to see the appearance of the label
5	video had wanted to, he could just as well have removed	5	"7622".
6	the green patch and displayed the radar data, for	6	A. Yes.
7	example, not showing the Sea Smooth name but showing the	7	Q. "7622" we know is the label given by the radar system to
8	number given to Sea Smooth, in the same format as the	8	Lamma IV?
9	Lamma IV data?	9	A. Yes.
10	A. Basically this is correct. Because it can remove the	10	Q. Then, from I think 20:17:35 onwards, we see actually
11	AIS label and just show the radar label, but it will	11	7622 and 786 appearing alternately.
12	still show the name "Sea Smooth" because it was received	12	A. Yes.
13	from the AIS transponder of the VTS. So it will still	13	Q. So is this table, which runs all the way up to page 322,
14	show the name instead of just the radar code. And they	14	an attempt to really marry up the radar data from the
15	can choose to show the radar label.	15	two vessels?
16	Q. Thank you. If you look at the screen, you can see near	16	A. Yes. Basically they are the radar datas of the two
17	the green patch there are two vessels, one with the name	17	vessels.
18	of "Chaple", the other is "R_Deter O". There are two	18	Q. There are some remarks on the "Alerts" column that
19	vessels you can see.	19	I would wish you to give us some assistance on.
20	A. Yes.	20	Page 314. At 20:14:17, we begin to see the alert
21	Q. Were they boats that were anchored at the anchor area,	21	"Collision".
22	from what you can observe?	22	A. Yes.
23	A. Yes.	23	Q. We know that's not quite the time when the collision in
24	Q. Apparently they didn't seem to move. They appear to be	24	question took place, and at that point in time, Lamma IV
25	anchored.	25	hadn't even cleared its berth, I believe. So it can't
	Page 54		Page 56
1	A. Yes.	1	be talking about the collision in question.
2	THE CHAIRMAN: Mr Shieh, do we have details of the	2	A. No. This alert has nothing to do with the collision of
3	characteristics of these vessels?	3	Lamma IV.
4	MR SHIEH: We can check. I believe we have a list of the	4	Q. Pause here. Perhaps in explaining it, you can obviously
5	anchored vessels in the area. But I can check whether	5	answer the question in the way which appears most
6	we have the characteristics of these vessels.	6	appropriate to you, but you may also wish to explain to
7	THE CHAIRMAN: Thank you.	7	us the way this "Alert" column works within the VTS
8	MR SHIEH: I believe we do. Mr Beresford is now looking for	8	system.
9	them.	9	A. The VTS system could provide different alert settings.
10	Mr Yim, can I ask you to turn to the radar data that	10	For example, it can set potential collision alert or
11	the Mardep has recently disclosed. In terms of bundle	11	in-zone alert or potential grounding or potential
12	reference, I think the easy way to look at them would be	12	striking alert. In the case of potential collision
13	in the expert evidence bundle, page 310. In terms of	13	alert, it was calculated according to the CPA and TCPA
14	the original bundle numbering, it would be marine	14	of two vessels that are heading towards each other,
15	bundle 8, page 2027 onwards. So depending on whichever	15	where if they violate the allowed shortest distance,
16	bundles people are using	16	then a collision alert will be issued.
17	May I know which version the witness is using?	17	THE CHAIRMAN: What were the parameters set to make this $a_{1}a_{2}a_{3}a_{4}a_{5}a_{5}a_{5}a_{5}a_{5}a_{5}a_{5}a_{5$
18	A. I have both bundles in front of me.	18	alarm go off? MS SIT: That's not the question "Triager"
19	Q. All right. Why don't we use the expert bundle, because	19	MS SIT: That's not the question. "Trigger".
20 21	that, I think, is most convenient to the involved	20 21	THE INTERPRETER: (Chinese spoken). A. There are three kinds of settings in the VTS. In the
21	parties. Page 310. Marine bundle 8, page 2027. That starts at 20:04 with a label "786".	21	A. There are three kinds of settings in the VTS. In the inner harbour, if the CPA is less than 90 metres and the
23	A. Yes.	23	TCPA is three minutes, then a potential collision alert
24	Q. 786 is the label for Sea Smooth?	24	will go off. In certain positions, the TSS or the
25	A. Yes.	25	traffic separation scheme is set at 180 metres for CPA,
		- Ŭ	separation service is set at 100 metres for erre,

	Page 57		Page 59
1	and three minutes for TCPA. In the case of outer	1	THE CHAIRMAN: Yes. It's a question of prioritising the
2	harbour, the CPA was set at 360 metres, and the TCPA was	2	material to be received.
3	three minutes.	3	MR McGOWAN: Yes.
4	THE CHAIRMAN: Thank you.	4	THE CHAIRMAN: If it's necessary for Dr Armstrong to inspect
5	MR SHIEH: That is for an alert of potential collision?	5	the vessel again or to call for more information, then
6	A. Yes. Apart from these perimeters, other criteria have	6	it makes sense that he's given it before he leaves
7	to be met for the alarm to go off. For example, whether	7	Hong Kong.
8	the two vessels that are heading towards each other are	8	MR McGOWAN: Yes, and that's been explained to me by my
9	VTS-participating vessels. There might be cases where	9	learned friend. We'll chase that up.
10	one of them is and the other is not, or both of them are	10	THE CHAIRMAN: Thank you. Please come back to me this
11	not. If they meet these criteria, then the potential	11	afternoon.
12	collision alert will be generated. For example, on	12	MR McGOWAN: Yes.
13	page 314, from 20:14:17 onwards, up to 20:14:32, the	13	THE CHAIRMAN: Mr Yim, we're going to adjourn now. We'll
14	target ship 786 has issued potential warning signals six	14	resume at 2.30 this afternoon. For your information,
15	times. So that means in that course, there is	15	we'll sit until 4.30.
16	a VTS-participating ship that runs the risk of	16	Thank you. 2.30.
17	collision. That means it has violated the conditions of	17	(1.01 pm)
18	CPA and TCPA, and so it has the potential collision	18	(The luncheon adjournment)
19	alert. This kind of situation occurs quite frequently,	19	(2.29 pm)
20	because the traffic at the harbour is very heavy. And	20	THE CHAIRMAN: Yes, Mr Shieh.
21	afterwards, the CPA and TCPA was no longer violated, and		MR SHIEH: Mr Chairman, I have had a word with those
22	so the potential collision alert went off.	22	instructed by the Department of Justice about the
23	MR SHIEH: Mr Chairman, it's about 1 o'clock now, but	23	information sought by Mr Chairman about the anchored
24	perhaps before we take the lunch break I can actually	24	vessels, whether or not there is further information
25	inform the Chairman that we actually have information of	25	about those vessels.
	Page 58		Page 60
1	the anchored vessels.	1	Obviously I've particularly indicated that perhaps
2	THE CHAIRMAN: Yes. Thank you.	2	the Commission is interested in the lighting that was on
3	MR SHIEH: It's in the expert witness bundle, page 292 down	3	those vessels, because obviously if we start asking for
4	to page 299. We've got radar snapshots. In order to	4	the entire file of those vessels, we will end up getting
5	actually get the detailed characteristics, one might	5	ship construction plans and all those sorts of things,
6	have to zoom in. But we will try to actually obtain	6	which is not exactly what the Commission is looking for.
7	zoomed-in	7	THE CHAIRMAN: No, we don't want that. What is relevant is
8	THE CHAIRMAN: Presumably these vessels and their	8	the length of the vessel; if it is known, what its state
9	characteristics are known by other data as well? If	9	in the water was high out of the water, low down;
10 11	they're anchored in Hong Kong, presumably there's some record of their length overall, whether they are lit up	10	factors that might be relevant to issues of interfering
11	like a Christmas tree, as tankers often are?	11 12	with visibility. That's all. Nothing more, nothing less.
13	MR SHIEH: We will check that out.	13	MR SHIEH: Yes. That is what I understood to be the line of
14	THE CHAIRMAN: Thank you. Now, the issue that I raised	14	inquiry, and I have communicated that to the Department
15	earlier as to the timetable for the provision of	15	of Justice and they are taking instructions.
16	material from Hongkong Electric, has that been resolved	16	THE CHAIRMAN: Thank you.
17	by counsel?	17	MR SHIEH: Can I now carry on with the questioning?
18	MR SHIEH: I informed Mr McGowan and those instructing him	18	THE CHAIRMAN: Please do.
19	as to the precise items of documentation which the	19	MR SHIEH: I have just been reminded to follow up on one
20	Commissioner would need in order for Dr Armstrong to be	20	question and one answer that had been raised during the
21	able to follow up on any matters of ship construction	21	morning session.
22	before he departs.	22	Can I remind the witness of an answer that he had
23	THE CHAIRMAN: Mr McGowan?	23	given about low accuracy in terms of the position of the
24	MR McGOWAN: We'll make enquiries after over the lunch break	24	vessels, which we discussed this morning. In the
25	and let you know this afternoon.	25	LiveNote transcript, it is page 41, line 13. We

	Page 61		Page 63
1	discussed the accuracy of the GPS.	1	A. Yes, if both vessels are participants, then regardless
2	THE CHAIRMAN: Perhaps we could have that bit translated.	2	of the length, as long as there is a violation of CPA
3	We're dealing, I think, with what is at page 1876 in	3	and TCPA, the alert will still be generated. But if one
4	marine bundle 8, where the reference is to low accuracy	4	of the vessels is a participating vessel, then its
5	and then "greater than 10 metres".	5	length must be higher than then the vessel that is
6	MR SHIEH: Yes, that was the witness's evidence in his	6	not participant, its length has to be longer than
7	witness statement when he was describing the legend.	7	35 metres in order for the alert to be generated. If
8	THE CHAIRMAN: Marine bundle 8, page 1876.	8	both vessels are not participants, then the alert will
9	A. Yes.	9	not be issued.
10	MR SHIEH: The answer you gave was that it was only a common		
11	GPS and not a DGPS, which means a differential global		Q. A number of questions arise from that. you mentioned the
		11	concept of a participant in VTS. How does a vessel come
12	positioning system.	12	to participate in the VTS? Does it launch a prior
13	A. Yes.	13	application or register with the Mardep?
14	Q. So is it your evidence that as far as this vessel was	14	A. There are criteria for the VTS-participating vessels.
15	concerned, its GPS was only a common GPS and not	15	But as far as I know, the ocean-going vessels and the
16	a differential GPS? And what difference would it have	16	large river-trade vessels are usually participants of
17	made?	17	VTS. But as for the precise definition of the
18	A. Because according to the AIS information, "low accuracy"	18	participants, we have to ask the staff of the operation
19	refers to the according to the accuracy standard	19	department.
20	requirement, its accuracy is higher than 10 metres. But	20	THE CHAIRMAN: Was Sea Smooth a participant in this VTS
21	if it is a "high accuracy", that means DGPS equipment,	21	scheme?
22	then the document sent should show the letter "H".	22	A. As far as I know, it is not.
23	The difference between DGPS and GPS is that in the	23	MR SHIEH: How about Lamma IV?
24	case of a common GPS, it has no correction. But in the	24	A. Neither is it.
25	case of a DGPS, it can make correction to make it more	25	Q. So, according to what you have just said, the system
	Page 62		Page 64
1	accurate.	1	simply would not generate any alerts for potential
2	THE CHAIRMAN: If it's got that differential GPS, instead	2	collisions in respect of these two vessels, although
3	of "L", you have "H", is that it, on the transmission?	3	radar signals would be captured?
4	A. Yes, but according to the recommendation of the AIS,	4	A. Yes. As far as these two vessels which are heading
5	this is what needs to be done. But on the vessel, they	5	towards each other are concerned, the warning will not
6	can make mistakes by inserting "L" instead of "H".	6	be issued.
7	MR SHIEH: It's entirely a matter for the vessel whether it	7	Q. Thank you. We will decide whether to pursue this line
8	equips itself with a common GPS or a differential GPS;	8	of inquiry about participating in VTS. But could you
9	is that the case?	9	let us know which particular section of Mardep would be
10	A. Yes.	10	responsible for this question of participation in VTS,
11	Q. Can I move on to another area of answers that you gave	11	so we could consider the matter?
12	in the morning.	12	A. I think the staff of the VTC are able to answer your
13	You talked about the parameters which were set in	13	questions. I mean the staff of the VTC operation.
14	order to generate alerts. You talked about the CPA, the	14	Q. Is there a particular designated post? If you don't
	order to generate alerto. Tou tanked about the erri, the		
15	TCPA do you remember?	15	want to mention the officer's name, perhaps a particular
15 16		15	want to mention the officer's name, perhaps a particular post that we could approach?
16	TCPA do you remember? A. Yes.	16	post that we could approach?
	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether	16 17	post that we could approach? A. Yes, but I'm only I belong to the VTC engineering
16 17 18	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in	16 17 18	post that we could approach?A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer
16 17 18 19	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in the VTS.	16 17 18 19	post that we could approach?A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer your questions.
16 17 18 19 20	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in the VTS.A. Yes.	16 17 18 19 20	post that we could approach?A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer your questions.Q. Right. So it's the operation section of the VTC who
16 17 18 19 20 21	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in the VTS.A. Yes.Q. How did that work? Is it the case that alerts about	16 17 18 19 20 21	post that we could approach?A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer your questions.Q. Right. So it's the operation section of the VTC who could provide relevant information or witness
16 17 18 19 20 21 22	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in the VTS.A. Yes.Q. How did that work? Is it the case that alerts about potential collisions between two vessels would only be	16 17 18 19 20 21 22	post that we could approach?A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer your questions.Q. Right. So it's the operation section of the VTC who could provide relevant information or witness statements?
16 17 18 19 20 21 22 23	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in the VTS.A. Yes.Q. How did that work? Is it the case that alerts about potential collisions between two vessels would only be generated if both vessels were participants, or is it	16 17 18 19 20 21 22 23	 post that we could approach? A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer your questions. Q. Right. So it's the operation section of the VTC who could provide relevant information or witness statements? We simply need to approach the VTC operations
16 17 18 19 20 21 22	TCPA do you remember?A. Yes.Q. As part of the parameters, you also talked about whether or not one or both of the vessels were participants in the VTS.A. Yes.Q. How did that work? Is it the case that alerts about potential collisions between two vessels would only be	16 17 18 19 20 21 22	post that we could approach?A. Yes, but I'm only I belong to the VTC engineering department, and only the VTC operations staff can answer your questions.Q. Right. So it's the operation section of the VTC who could provide relevant information or witness statements?

1	section?	1	THE CHAIRMAN: Before you move on, when you say that the
2	Let me put the question again. Perhaps I am putting	2	visual alert is shown in red, is that the vector between
3	it in too lengthy a manner.	3	the vessels?
4	Your section doesn't deal with participation in the	4	A. (In English) Vector and the label as well.
5	VTS scheme; the operations section deals with this	5	THE CHAIRMAN: Thank you.
6	matter, and we should therefore approach the operations	6	MR SHIEH: Mr Mok has kindly supplied copies of what the
7	section of VTC in this regard.	7	alert would look like visually.
8	A. Yes.	8	THE CHAIRMAN: They're available, perhaps we can deal with
9	Q. The next question that arose from your answer is that	9	it now.
10	we've been hearing this concept about generating	10	(Handed).
11	an alert. We have seen the print-outs, but these	11	These are the waters up by the bridge, Ma Wan, are
12	print-outs that we saw were obviously created after the	12	they not?
13	event.	13	A. Yes.
14	For example, the one in the expert bundle, page 310	14	MR SHIEH: We can see a number of red words on display on
15	onwards, they were obviously printed out after the	15	this print-out, this series of print-outs.
16	event?	16	A. Yes.
17	A. Yes.	17	Q. Is that what you refer to as being the alert in red that
18	Q. So when you talk about generating an alert, you're not	18	would be displayed on the screen?
19	just talking about an alert appearing in the right-hand	19	A. Yes.
20	column in these print-outs generated after the event,	20	THE CHAIRMAN: So vector and label?
21	are you? You're talking about an alert generated	21	A. Yes. If you pay attention to the centre of the course,
22	contemporaneously as events unfold?	22	you will see that there is a vessel with its vector and
23	A. Yes.	23	label shown in red.
24	Q. So how would those alerts be generated? Would it be	24	THE CHAIRMAN: Yes. Thank you.
25	an audible alert in the VTC, or would it be a visual	25	MR SHIEH: Thank you. My next question following from that
	Page 66		Page 68
1	alert appearing on a monitor, in a textual form like	1	is, how would these alerts be used or relied upon or
2	this, or can you describe the way the alert was	2	utilised within the VTS?
3	generated? Or is it an alert generated to the vessels	3	A. When a VTS operator spots a vessel in which its label
4	in question?	4	and vector has turned to red, he will pay particular
5	A. In fact the three ways that you mentioned are possible,	5	attention to this vessel because it is running the risk
6	except the one pertaining to the VHF channel. It	6	of colliding with the vessel that is heading towards it.
7	depends on whether such a traffic display setting has	7	And it will use the very high frequency, VHF, to advise
8	been set. In the case of visual alert, the size of the	8	the vessel.
9	ship and the label will be shown on the screen in red.	9	Q. This may be something more relevant to what we call
10	In the case of audible alert, it depends on whether the	10	
11	setting has been enabled to allow such an alert. As for	11	up. In the print-out that we have seen, the print-out
12	the textual alert, it can be displayed on the screen.	12	shows that there are quite a number of red alerts or
13	Q. So who would decide at any particular time what sort of		there could be a number of red alerts at any one time.
14	setting is entered into the system?	14	A. Yes.
15	A. A VTS operator can change the setting, but I would like		Q. So are you suggesting that staff at the VTC would
16	to add that the visual alert would certainly be shown.	16	actually be making efforts to contact all vessels shown
17	In the case of audible alert, an operator can disable it	17	on the alert as potentially running the risk of
18	or enable it, depending on the need of operation.	18	a collision?
19	Q. Well, I suppose it may be because if you set the audible	19	A. No, because the ships that are shown in red in the Kwai
20	alert to be on, then in case of a situation at, let's	20	Chung container terminal and the anchorage area, all
21		21	these vessels are already anchored.
	say, 20:14, when it's alerted to be a collision but		
22	which didn't take place, which might be pretty often, if	22	But when the system spotted violations of CPA and
22 23	which didn't take place, which might be pretty often, if you set it to audible, then the room would be rather	23	TCPA, it will still generate an alert. But in these
22 23 24	which didn't take place, which might be pretty often, if you set it to audible, then the room would be rather noisy?	23 24	TCPA, it will still generate an alert. But in these cases, the alert doesn't have much meaning. But for
22 23	which didn't take place, which might be pretty often, if you set it to audible, then the room would be rather	23	TCPA, it will still generate an alert. But in these

Page 65

Page 67

	Page 69		Page 71
1	the attention of the operators.	1	displayed.
2	Q. This morning again, you had given evidence. We may	2	A. Yes.
3	follow up the operation of the VTC in terms of vessel	3	Q. But you told us that Sea Smooth was not a participant in
4	safety perhaps in a later part of the Inquiry, but can	4	the VTS. So did this alert arise because the other
5	I come back to what you said this morning.	5	vessel was a participant?
6	This morning you gave evidence about the parameters	6	A. Yes. As far as I understand, this is the case.
7	in terms of the CPA and TCPA, in order to generate	7	
8	alerts.	8	Q. But on this print-out, we wouldn't know who the other vessel was?
° 9	A. Yes.	9	
			A. Yes, we don't know. Yes, we can't tell that from the
10	Q. For example, you talked about if it's within harbour,	10	print-out.
11	then it's a particular set of parameters, whereas if	11	Q. Fine. Can I then ask you to look at page 318, which
12	it's in another area, it would be some other set of	12	shows the other type of alert that you mentioned, the
13	parameters.	13	in-zone alert. Can you explain to us what this in-zone
14	A. Yes.	14	alert is?
15	Q. In particular, you said in the inner harbour it would be	15	A. In the inner harbour, some areas will attract special
16	CPA, less than 90 minutes, and TCPA, three minutes.	16	attention when some vessels come in. The system will
17	A. Yes.	17	allow the users to define a special zone in the waters
18	Q. Whereas if it's for let's say the outer harbour, you	18	where, when a vessel comes in, it will trigger the
19	said CPA would be set at 360 metres, and the TCPA, three		alert.
20	minutes?	20	Q. Right. So that is actually not to do with any
21	A. Yes.	21	collision, but it's got to do with the positioning of
22	Q. Perhaps you could assist us on that. How are these	22	a particular vessel in or near a particular zone?
23	various parameters decided?	23	A. Yes.
24	For example, to a layman, 360 metres could appear to	24	Q. Could I now ask you to look at certain radar plots
25	be quite far off.	25	produced by Mardep, which are in the expert bundle at
	Page 70		Page 72
1	A. Yes. In the case of outer harbour, setting the	1	page 356. The reference for the marine bundle is marine
2	perimeter at 360 metres won't pose a major problem. But	2	bundle 8, page 2073. This is a radar plot at a range of
3	in the case of the inner harbour, if the perimeter is	3	0.21 nautical miles.
4	set at 360 metres, then a large number of vessels will	4	A. Yes.
5	run the risk of collision of the alert, and that is why	5	Q. The red represents Sea Smooth, and the blue represents
6	it was set at 90 metres. But as for why it is 90 metres	6	Lamma IV?
7	or 360 metres, it is due to the need of the operational	7	A. Yes.
8	staff.	8	Q. On the left-hand side, we can see "786", and that is the
9	Q. So the operation section again would be able to assist	9	label given to Sea Smooth?
10	us as to the thinking behind let's say choosing	10	A. Yes.
11	90 metres for inner harbour, and as to how these	11	Q. Just to confirm this, the various items of data shown or
12	parameters are decided upon.	12	displayed on this plot for both vessels were in fact
13	A. Yes.	13	taken from the radar data that we could see shown in the
14	Q. Can I ask you to look at the expert bundle, page 314.	14	previous pages, the track records; is that correct?
15	I've been reminded by my learned friend Mr Mok that	15	A. Yes.
16	in terms of the translation, I think what the witness	16	Q. But the particular interval in question actually only
17	meant to say at page 70, line 5, was that if the	17	started here at 20:19. Around about 20:19:56, I think.
18	parameter is set at 360 metres, then a large number of	18	A. (Chinese spoken).
19	vessels would not it shouldn't be "run the risk of	19	Q. The same goes for the blue line?
20	collision", I think it's probably "run the risk of	20	A. (In English) Yes.
21	triggering the alert".	21	(Chinese spoken).
22	THE CHAIRMAN: I think he made that clear. Even in the	22	THE CHAIRMAN: Could we have the translation?
23	translation, that was clear.	23	MR SHIEH: I'm sorry.
24	MR SHIEH: Thank you.	24	A. In this plot, the label was shown as 20:19:56, but in
25	Page 314, Mr Yim, you see the collision alert being	25	actual fact, we can see some red dots on the red line.

	Page 73		Page 75
1	It was because this information corresponds to the radar	1	A. Basically this is true, but I would like to supplement
2	track record. It's only that we haven't shown the	2	some information. In the previous page, you see that
3	label the dots.	3	the information provided by the AIS, it was sent from
4	It's only that we haven't shown the label.	4	the vessel. It depends on how much information has been
5	THE CHAIRMAN: Yes. If we look at page 358, we've got	5	inputted into the transponder and how much equipment has
6	an earlier period included, do we not?	6	been attached to the system. But I can see that the
7	A. Yes.	7	information here is more substantial than that of the
8	MR SHIEH: Could I just see whether or not I have any other	8	Sea Smooth, because you can see that here the number 6.5
9	questions for you, Mr Yim. Just give me a minute.	9	indicates the ship's draft, and the 4.1 indicates the
10	Could the witness be shown expert evidence bundle	10	air draft of the vessel.
11	page 292.	11	But the information we received from Sea Smooth did
12	A. Yes.	12	not indicate the draft and the air draft.
13	Q. Page 292 is a page of narrative providing information on	13	Q. Right. So all these green patches come from information
14	vessels that were anchored in the vicinity of the Lamma	14	generated by the AIS transponder on individual vessels?
15	Channel between 7 pm and 9 pm on 1 October.	15	A. Yes.
16	A. Yes.	16	Q. But the Marine Department would have its own information
17	Q. If you turn over to the next few pages, it goes up to	17	about vessels anchored in that vicinity at any one time,
18	page 299.	18	wouldn't it?
19	These were all radar snapshots taken at various	19	A. Yes. Yes, as far as I understand, this is the case.
20	points in time of the area in question.	20	Q. Which particular section in the Marine Department would
21	A. Yes.	21	be responsible for keeping or handling those files or
22	Q. Can you just confirm that these are all records that are	22	information?
23	retrieved or generated from the VTS?	23	A. I'm not sure, but we can ask the staff of the VTS
24	A. Judging from these snapshots, I believe that it is the	24	operation.
25	case.	25	Q. I can simply ask the lawyers instructed for Mardep.
	Page 74		Page 76
1	Q. Thank you. By way of illustration, if we look at	1	
	Q. Thank you. By way of mustation, if we look at	1	Now that you have brought up this point that the
2	page 297	1 2	Now that you have brought up this point that the information that we find on these radar snapshots may
2	page 297	2	information that we find on these radar snapshots may
2 3	page 297 A. Yes.	2 3 4 5	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the
2 3 4	page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored	2 3 4	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain
2 3 4 5 6 7	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those 	2 3 4 5 6 7	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the
2 3 4 5 6 7 8	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. 	2 3 4 5 6 7 8	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot.
2 3 4 5 6 7 8 9	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. 	2 3 4 5 6 7 8 9	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet.
2 3 4 5 6 7 8 9 10	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements 	2 3 4 5 6 7 8 9 10	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet.
2 3 4 5 6 7 8 9 10 11	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? 	2 3 4 5 6 7 8 9 10 11	information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more
2 3 4 5 6 7 8 9 10 11 12	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the 	2 3 4 5 6 7 8 9 10 11 12	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the
2 3 4 5 6 7 8 9 10 11 12 13	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the 	2 3 4 5 6 7 8 9 10 11 12 13	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce
2 3 4 5 6 7 8 9 10 11 12 13 14	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, 	2 3 4 5 6 7 8 9 10 11 12 13 14	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which is 119. The fourth row shows the breadth, which is 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him to produce a statement subsequently, because I'm not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which is 119. The fourth row shows the breadth, which is 32 sorry, the fourth group, with the number 32, it 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him to produce a statement subsequently, because I'm not sure whether my learned friends would wish to ask him
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which is 119. The fourth row shows the breadth, which is 32 sorry, the fourth group, with the number 32, it indicates the breadth. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him to produce a statement subsequently, because I'm not sure whether my learned friends would wish to ask him any questions now or whether they are going to ask to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which is 119. The fourth row shows the breadth, which is 32 sorry, the fourth group, with the number 32, it indicates the breadth. Q. Basically we decipher these green patches in accordance 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him to produce a statement subsequently, because I'm not sure whether my learned friends would wish to ask to defer anyway. Because if they're going to ask to defer
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which is 119. The fourth row shows the breadth, which is 32 sorry, the fourth group, with the number 32, it indicates the breadth. Q. Basically we decipher these green patches in accordance with the table that you helpfully produced at page 4 of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him to produce a statement subsequently, because I'm not sure whether my learned friends would wish to ask to defer anyway. Because if they're going to ask to defer anyway, then the suggestion from you would be sensible.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 page 297 A. Yes. Q. The bottom snapshot shows the situation about anchored vessels in the vicinity at 20:20 pm. A. Yes. MR SHIEH: Are we able to blow that up? Any one of those green patches. For example, the Chaple, the one about the Chaplet. Does that give us any information about the measurements of the vessel, length and breadth? A. The second row, the letter shown on the row is the label. In the first column, the number 254.0 is the call of the vessel, but it is only a pure calculation, because the vessel is already anchored. But the system continued to make the calculation. On the first row the second cluster of numbers shows the speed. The third one shows the length, which is 119. The fourth row shows the breadth, which is 32 sorry, the fourth group, with the number 32, it indicates the breadth. Q. Basically we decipher these green patches in accordance 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 information that we find on these radar snapshots may not correspond entirely with the eight points that you mentioned in your witness statement, because obviously these depend on the manner in which each ship sends the AIS signal, perhaps I may have to trouble you to explain to us in greater detail the information on each of the anchored vessels on that snapshot. Just now we are looking at Chaple. Chaplet. I think the "T" is actually left out. Chaplet. THE CHAIRMAN: Mr Shieh, it occurs to me that a more expeditious way of approaching this would be to ask the witness outside the hearing room to produce a supplementary statement in which these codes are broken down so that we can follow them, and it would be a one-page statement. MR SHIEH: Perhaps, yes. It's simply the case that whilst he's in the witness box, and to avoid having to ask him to produce a statement subsequently, because I'm not sure whether my learned friends would wish to ask to defer anyway. Because if they're going to ask to defer

	Page 77		Page 79
1	MR SHIEH: Mr Yim, would it be possible for you to look at	1	MR McGOWAN: Yes, please.
2	the snapshot at 20:20, and perhaps for assistance 20:15	2	THE CHAIRMAN: On what basis do you ask for leave?
3	as well, because that is the five minutes before the	3	MR McGOWAN: There are one or two matters I'd like him to
4	collision, to look at these two snapshots at page 297	4	expand on.
5	for the anchored vessels, to produce something similar	5	THE CHAIRMAN: How is it relevant to your case?
6	to what you have done at page 1876 of the Marine	6	MR McGOWAN: Well, I think it's relevant to the depth of the
7	Department bundle, that is to say, in your witness	7	information which is available from the VTC figures on
8	statement? Do you think that is a task that you are	8	which other witnesses will be placing reliance.
9	prepared to do; not now, but after you have gone out of	9	THE CHAIRMAN: By that you mean specifically Captain Pryke?
10	the witness box.	10	MR McGOWAN: Well, yes, in particular.
		11	THE CHAIRMAN: We're satisfied that that is an area which
11	A. Yes, I think so.		
12 13	MR SHIEH: That's very kind of you, thank you. Because I think with that assistance, and also with the	12	you are entitled to cross-examine. Please proceed.
		13 14	THE INTERPRETER: I'm sorry, the witness has something to
14	information that we might be able to get from the Marine		say.
15	Department as to the characteristics and measurement of	15	A. There is something I would like to add concerning this
16	the vessel, we should have a fair picture of the nature	16	set of print-outs.
17	of the vessels anchored in that vicinity.	17	THE CHAIRMAN: Yes.
18	Thank you very much, Mr Yim. I don't have any	18	MR McGOWAN: Perhaps I can hand the lectern back to
19	further questions for you.	19	Mr Shieh.
20	THE CHAIRMAN: Mr Shieh, before you sit down, I'm looking in		THE CHAIRMAN: Yes, very well.
21	the expert's report at page 268.	21	MR SHIEH: Yes, Mr Yim?
22	It's headed "Hong Kong Marine Police", and it	22	1 5
23	produces data as to what I think is the passage of the	23	to 4, which are the videos. We can see clearly the
24	Sea Smooth. "8038" is the label number. There is in	24	course and the situation pertaining to the collision of
25	the "Alerts" column, picking it up from the five-minute	25	the two vessels. But in fact these are just the
	Page 78		Page 80
1	period before the collision, the reference "speed high",	1	cleaned-up versions, and in fact they were particularly
2	presumably meaning "high-speed vessel", "collision", and	2	made for these two vessels afterwards. In fact, what
3	then that is repeated all the way through, and beyond	3	the officers on duty in the VTC saw on that particular
4	what I understand to be the actual collision.	4	night is what we see on this set of print-outs, and
5	MR SHIEH: Yes.	5	there are three displays, namely DP03, DP04 and DP05.
6	THE CHAIRMAN: Is a Marine Police officer going to speak to	6	The first two snapshots were taken from DP03, at 20:20
7	that information?	7	and 20:20:17.
8	MR SHIEH: Yes, I'm going to ask a Marine Police officer to	8	We can also see that in DP03, it doesn't show the
9	speak to it because this is generated from the Marpol	9	area in the vicinity of Lamma Island. As for the
10	system.	10	following two snapshots, it is taken from DP04. It
11	THE CHAIRMAN: Thank you very much.	11	
12	MR SUSSEX: Mr Chairman, I wonder if I can ask what page it	12	We can see from the bottom of the snapshot that we
13	is. I was looking at page 268 of the expert's bundle.	13	· · · · · · · · · · · · · · · · · · ·
14	THE CHAIRMAN: Perhaps I gave you the wrong page number.	14	just out of sight. Also, we can see from the subwindow
15	It's page 288.	15	
16	MR SHIEH: Mr Chairman, the plan is to ask the Marpol	16	
17	witness questions equivalent to	17	1
18	THE CHAIRMAN: No, I follow that. I just wanted to make	18	display. They were taken from DP05. The time shown was
19	sure that we don't lose the witness if there was	19	20:20:00 and 20:20:17. We can see Lamma Island on the
20	something else he could deal with.	20	subwindow on the lower left-hand side, bottom.
21	MR SHIEH: Yes.	21	1 1 C ,
22	MR McGOWAN: Thank you, Mr Chairman. I've got some	22	see in the subwindow on the lower left-hand side that
23	questions.	23	1 '
24	THE CHAIRMAN: You're asking for leave to cross-examine the		·
25	witness?	25	the last one, showing the time 20:20:17, we can actually

	Page 81		Page 83
1	see that the two vessels are starting to collide into	1	next scan, but it was not the but they don't solely
2	each other. And all these snapshots were the images	2	rely on it because they would also measure the echo
3	that the operators who were on duty that night sees, and	3	point and also take the error, and then multiply by
4	not made up afterwards.	4	a parameter to produce the next scan. And the
5	THE CHAIRMAN: On that snapshot, the bottom left-hand	5	historical data do have some influence, but they don't
6	corner, that's Cheung Chau, is it not?	6	solely rely on it.
7	A. Yes.	7	Q. I'm not suggesting that it's totally historical, but
8	THE CHAIRMAN: The Adamasta Channel, on the far side?	8	it's a combination of position dots which have been
9	A. Adamasta Channel.	9	joined up in the past, and a prediction of where the
10	THE CHAIRMAN: Is that what you want to tell us? That's	10	next ones are going to be, to give the course and speed
11	what you wanted to tell us, that information?	11	information?
12	A. Yes, because I was afraid that there would be	12	A. Yes, basically the historical factor does have its
13	a misunderstanding that the operators on duty on that	13	influence.
14	night could see a very clear image.	14	Q. Despite the sophistication of your radar, you cannot
15	THE CHAIRMAN: I think we understand what the real picture	15	tell what the actual heading of any particular vessel
16	is.	16	is, can you?
17	MR SHIEH: It's probably something relevant to what we call	17	A. I agree that since the echoes of the radar can only
18	part 2, where we may actually enquire as to what the	18	calculate the COG and SOG, but the heading but the
19	screen would actually look like on the relevant display	19	radar is not able to tell the accurate heading of the
20	processor.	20	vessels. But as for the AIS data, it can be it can
21	THE CHAIRMAN: Yes.	21	input the heading information and send them to us.
22	MR SHIEH: But perhaps not for immediate purposes.	22	Q. Yes, but that wouldn't appear on the radar picture; that
23	THE CHAIRMAN: Thank you.	23	would appear on the AIS information facility?
24 25	Mr McGowan? Examination by MR McGOWAN	24 25	A. Yes, it won't be shown on the radar label, but it will be shown on the AIS label.
2.5		23	be shown on the AIS label.
	Dama 92		Dama 94
1	Page 82	1	Page 84
1	MR McGOWAN: That's really dealt with my first question.	1	Q. Your radar system works on three-second sweeps; is that
2	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in	2	Q. Your radar system works on three-second sweeps; is that correct?
2 3	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of	2 3	Q. Your radar system works on three-second sweeps; is that correct?A. Yes.
2 3 4	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct,	2 3 4	Q. Your radar system works on three-second sweeps; is that correct?A. Yes.Q. And if a vessel alters course, the system is going to
2 3 4 5	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it?	2 3 4 5	Q. Your radar system works on three-second sweeps; is that correct?A. Yes.Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or
2 3 4 5 6	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it?A. Yes.	2 3 4 5 6	Q. Your radar system works on three-second sweeps; is that correct?A. Yes.Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn?
2 3 4 5 6 7	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it?A. Yes.Q. What just happened is you've taken the data which was	2 3 4 5 6 7	Q. Your radar system works on three-second sweeps; is that correct?A. Yes.Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn?A. Yes.
2 3 4 5 6 7 8	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it?A. Yes.Q. What just happened is you've taken the data which was available in the VTC computer and historical computer	2 3 4 5 6	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how
2 3 4 5 6 7	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it?A. Yes.Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to	2 3 4 5 6 7 8	Q. Your radar system works on three-second sweeps; is that correct?A. Yes.Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn?A. Yes.
2 3 4 5 6 7 8 9	MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it?A. Yes.Q. What just happened is you've taken the data which was available in the VTC computer and historical computer	2 3 4 5 6 7 8 9	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you
2 3 4 5 6 7 8 9 10	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the 	2 3 4 5 6 7 8 9 10	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with
2 3 4 5 6 7 8 9 10 11	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? 	2 3 4 5 6 7 8 9 10 11	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course?
2 3 4 5 6 7 8 9 10 11 12 13 14	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to us separately? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair question, but not a very clear question. It will take
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to us separately? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair question, but not a very clear question. It will take some time for any radar, including the VTS system, to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to us separately? A. Yes. Q. And the computer system in the VTC centre produces the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair question, but not a very clear question. It will take some time for any radar, including the VTS system, to re-establish the particular after a vessel alters
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to us separately? A. Yes. Q. And the computer system in the VTC centre produces the course and speed over the ground using historical 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair question, but not a very clear question. It will take some time for any radar, including the VTS system, to re-establish the particular after a vessel alters course, particularly if it comes round and makes
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to us separately? A. Yes. Q. And the computer system in the VTC centre produces the course and speed over the ground using historical information from previous radar sweeps? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair question, but not a very clear question. It will take some time for any radar, including the VTS system, to re-establish the particular after a vessel alters course, particularly if it comes round and makes a substantial alteration?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 MR McGOWAN: That's really dealt with my first question. Mr Yim, the videos you've shown us and described in your statement are in fact created for the purpose of the investigation into this collision; that's correct, isn't it? A. Yes. Q. What just happened is you've taken the data which was available in the VTC computer and historical computer system, and extracted it to produce those videos to assist the Commission and other people investigating the incident? A. Yes. Q. What the operators in the VTC would be watching while they were on duty would be the radar picture? A. Yes, which are the snapshots I have in hand. Q. If they wanted to, they could then access the computer system to give them the CPAs, for example, or the AIS information or other material which you've displayed to us separately? A. Yes. Q. And the computer system in the VTC centre produces the course and speed over the ground using historical 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Your radar system works on three-second sweeps; is that correct? A. Yes. Q. And if a vessel alters course, the system is going to take some time to catch that alteration of course or turn? A. Yes. Q. I don't know whether you can help us, Mr Yim, but how many sweeps of the system, the radar scanners, do you think are required for the system to catch up with an alteration of course? A. I am not able to tell you how many number of scans is needed to catch the turn, because it depends on the rate of the vessels and whether it is an abrupt change in the course, and also whether the system there is an initial setting to catch up such change that has been set in the system. Q. Yes. It's probably not a very it's not an unfair question, but not a very clear question. It will take some time for any radar, including the VTS system, to re-establish the particular after a vessel alters course, particularly if it comes round and makes

	Page 85	Page 87
1	course rapidly without going forward an advanced	1 A. Yes.
2	distance, a lengthy advanced distance, that's going to	2 Q. So if you're dealing with a moving target, one which is
3	be even more difficult to be caught on the VTC system?	³ turning rapidly, the accuracy figures will decrease;
4	A. Basically I agree with what you said, but it is not	4 that's correct, isn't it, Mr Yim?
5	about but it doesn't mean that it is more difficult.	5 A. Yes. Yes, during the period of the abrupt change.
6	Instead, it needs more time and needs to make more scans	
7	to catch it up.	7 A. Yes, as far as the range refers to the distance and the
8	Q. Yes. So there's going to be a delay between the	8 positioning. In that case, yes.
9	alteration of course, and that alteration of course	9 Q. I think just one other thing. You mentioned
10	being reflected on the VTC information?	10 discrimination, range discrimination. If targets are
11	A. Agree.	11 too close together, again, the VTC system has difficulty
12	Q. If that alteration of course is accompanied by	12 tracking them, doesn't it? There's a merging of
13	an increase or particularly a reduction in speed, that	13 targets?
14	again is going to require more time for the picture to	14 A. (Chinese spoken).
15	catch up?	15 A. (In English) Yes.
16	A. It can be shown on the radar data, but it takes more	16 Q. And it can take again some time for the VTC to rebuild
17	scans before it could be reflected on the tracking data.	17 its picture after two vessels come too close together?
18	Q. Yes, and the consequence of that is that there will be	18 A. It's not that it depends on the time needed for the VTC
19	a delay in determining whether a vessel, using the VTC	19 to rebuild, but it depends on the time for the two
20	radar system or any other radar system, has in fact	20 vessels to disengage from each other.
21	altered course?	21 Q. Yes. I accept that. And then as they move apart,
22	A. Yes.	again, some time is required to work out which one is
23	Q. And the same, certainly to a degree, if a vessel has	23 which perhaps.
24	altered speed?	24 A. Yes.
25	A. Yes.	25 MR McGOWAN: Mr Yim, thank you very much. You've been very
	Page 86	Page 88
1	Q. Perhaps you can just help us on another matter which	1 helpful.
1 2	Q. Perhaps you can just help us on another matter which I don't think you mentioned in your statement.	 helpful. MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at
		·
2	I don't think you mentioned in your statement.	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working
2 3	I don't think you mentioned in your statement. What is the accuracy of the VTC system in	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable
2 3 4	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working
2 3 4 5	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned,	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When?
2 3 4 5 6 7 8	I don't think you mentioned in your statement.What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system?A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the
2 3 4 5 6 7 8 9	I don't think you mentioned in your statement.What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system?A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information.
2 3 4 5 6 7 8 9 10	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When?
2 3 4 5 6 7 8 9 10 11	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on
2 3 4 5 6 7 8 9 10 11 12	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment.
2 3 4 5 6 7 8 9 10 11 12 13	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay?
2 3 4 5 6 7 8 9 10 11 12 13 14	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but I don't remember off-hand the criteria for the range 	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable. MR SUSSEX: My Lord, that's not strictly true because we
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but I don't remember off-hand the criteria for the range discrimation. But as for the range discrimination, we	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable. MR SUSSEX: My Lord, that's not strictly true because we received
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but I don't remember off-hand the criteria for the range discrimation. But as for the range discrimination, we are talking about the range of the distance for the two	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable. MR SUSSEX: My Lord, that's not strictly true because we received THE CHAIRMAN: Well, a timetable.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but I don't remember off-hand the criteria for the range discrimation. But as for the range discrimination, we are talking about the range of the distance for the two vessels that enables them to be identified, to be	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable. MR SUSSEX: My Lord, that's not strictly true because we received THE CHAIRMAN: Well, a timetable. MR SUSSEX: We received information last Thursday. So
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but I don't remember off-hand the criteria for the range discrimation. But as for the range discrimination, we are talking about the range of the distance for the two vessels that enables them to be identified, to be discriminated by the radar.	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable. MR SUSSEX: My Lord, that's not strictly true because we received THE CHAIRMAN: Well, a timetable. MR SUSSEX: We received information last Thursday. So there's been less than a week so far that our experts
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I don't think you mentioned in your statement. What is the accuracy of the VTC system in determining, for example, range? I think the technical expression is "range discrimination". Is there an error factor that's been calculated in the system? A. As far as the accuracy of the VTC system is concerned, according to the site acceptance test result, the average position is better than 10 metres, and the average speed is better than 1 knot, and the average course is better than 2 degrees. But we are just talking about the average value and not the instantaneous value. If you take a particular instance, it can be larger than 10 metres. Just now, sir, you have mentioned about the difference between the range discrimination, and accuracy. But in fact they are two different matters. There is a set of values pertaining to accuracy, but I don't remember off-hand the criteria for the range discrimation. But as for the range discrimination, we are talking about the range of the distance for the two vessels that enables them to be identified, to be	 MR SUSSEX: Mr Chairman, I don't apply to question Mr Yim at this stage but, as you know, we've received a lot of evidence at a very late stage and I have experts working day and night on the matter. It is just conceivable that I may have questions for Mr Yim at a later stage. THE CHAIRMAN: When? MR SUSSEX: Well, when our experts have provided me with the information. THE CHAIRMAN: When? MR SUSSEX: That will probably be sometime after we rise on 21 December, the way things are going at the moment. THE CHAIRMAN: Any reason why there should be that delay? MR SUSSEX: Yes, because there's a great deal of material that the experts are working through. THE CHAIRMAN: Forgive me for interrupting. The experts assisting the Commission have been working against the same timetable. MR SUSSEX: My Lord, that's not strictly true because we received THE CHAIRMAN: Well, a timetable. MR SUSSEX: We received information last Thursday. So

Г

	Page 89		Page 91
1	THE CHAIRMAN: He's been working on supplemental material	1	A. (In English) Yes.
2	that was provided to him late by the Marine Department.	2	Q. What I propose to do is to ask you whether or not you
3	MR SUSSEX: Yes, but he has approached that from a running	3	agree with the contents of this statement or whether you
4	start, as it were. He was apprised of more information	4	have anything to add or supplement, and then I'm going
5	beforehand.	5	to ask you to comment very briefly on the attachments.
6	THE CHAIRMAN: Very well. You'll make your application, if	6	A. There is an amendment that needs to be done in the
7	you have one, in due course.	7	attachment, which is there is an amendment that needs to
8	MR SUSSEX: Thank you.	8	be done pertaining to supervisor log.
9	THE CHAIRMAN: Mr Mok?	9	Q. The supervisor log which is in the bundle at page 1880?
10	MR MOK: We have no questions.	10	A. Yes.
11	THE CHAIRMAN: Mr Shieh?	11	Q. What amendment do you wish to make?
12	MR SHIEH: Mr Chairman, we don't have any follow-up	12	A. On that page, on the upper left-hand corner of that
13	questions.	13	page, in the third box, there is a space next to
14	THE CHAIRMAN: Thank you, Mr Yim, for coming here to assist	14	point 22. On that day, there were four persons on duty,
15	us. We'd be grateful if you could assist us with the	15	but the supervisor has left out two. He put that in
16	other information we asked you about, those anchored	16	afterwards.
17	vessels. If you could provide that in short form. All	17	There should be six persons on duty, but only two
18	we're interested in is finding out what kind of vessels	18	were put on that log. Two of them have been left out.
19	they were, how long, how beamy, things that go to the	19	Q. You are talking about the 22:00 entry in the "Time on"
20	issue of whether or not they were a factor in	20	column, are you? Or are you talking about the box below
21	visibility. That's all. Thank you very much.	21	that?
22	(The witness withdrew)	22	A. I am talking about the space below that.
23	THE CHAIRMAN: You're welcome to stay if you wish, Mr Yim.	23	Q. The box or the table which starts with "Weather Signal"?
24	It's up to you.	24	A. Yes.
25	Mr Shieh, the documents that you obtained from	25	Q. In that table, at the bottom right-hand corner, there is
	Page 90		Page 92
1	Page 90 Mr Mok to which reference has been made, they ought to	1	Page 92 an entry of 22:00.
1 2	-	1 2	an entry of 22:00. A. Yes.
	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number?		an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the
2	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's	2	an entry of 22:00.A. Yes.Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two
2 3	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us	2 3	an entry of 22:00.A. Yes.Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names?
2 3 4 5 6	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put.	2 3 4 5 6	an entry of 22:00.A. Yes.Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names?A. After he discovered that two staff, the names of two
2 3 4 5 6 7	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well.	2 3 4 5 6 7	an entry of 22:00.A. Yes.Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names?A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the
2 3 4 5 6 7 8	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the	2 3 4 5 6 7 8	an entry of 22:00.A. Yes.Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names?A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards.
2 3 4 5 6 7 8 9	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine	2 3 4 5 6 7 8 9	an entry of 22:00.A. Yes.Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names?A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards.THE CHAIRMAN: Is that the original book you have in front
2 3 4 5 6 7 8 9 10	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department.	2 3 4 5 6 7 8 9	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you?
2 3 4 5 6 7 8 9 10 11	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement?	2 3 4 5 6 7 8 9 10 11	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right.
2 3 4 5 6 7 8 9 10 11 12	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8,	2 3 4 5 6 7 8 9 10 11 12	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that
2 3 4 5 6 7 8 9 10 11 12 13	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878.	2 3 4 5 6 7 8 9 10 11 12 13	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible.
2 3 4 5 6 7 8 9 10 11 12 13 14	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement.	2 3 4 5 6 7 8 9 10 11 12 13 14	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed).
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do so. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do so. MR MA CHI-TAK (affirmed in Punti)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have a separate bundle comprising documents that are handed
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement. THE CHAIRMAN: Have you got your statement? MR SHIEH: An a sk you to take the oath or the affirmation as you choose. Would you stand to do so. MR MA CHI-TAK (affirmed in Punti) (All answers via interpreter unless otherwise indicated)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have a separate bundle comprising documents that are handed up during the hearing. It's almost like an exhibit
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do so. MR MA CHI-TAK (affirmed in Punti) (All answers via interpreter unless otherwise indicated) Examination by MR SHIEH	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have a separate bundle comprising documents that are handed up during the hearing. It's almost like an exhibit bundle.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do so. MR MA CHI-TAK (affirmed in Punti) (All answers via interpreter unless otherwise indicated) Examination by MR SHIEH MR SHIEH: Mr Ma, please look at the document in front of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have a separate bundle comprising documents that are handed up during the hearing. It's almost like an exhibit bundle. THE CHAIRMAN: Proceed as you wish, although there is some
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do so. MR MA CHI-TAK (affirmed in Punti) (All answers via interpreter unless otherwise indicated) Examination by MR SHIEH MR SHIEH: Mr Ma, please look at the document in front of you from Marine Department bundle 8, page 1878, which is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have a separate bundle comprising documents that are handed up during the hearing. It's almost like an exhibit bundle. THE CHAIRMAN: Proceed as you wish, although there is some merit in well, certainly paginate documents. That's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Mr Mok to which reference has been made, they ought to be in due course MR SHIEH: Given an exhibit number? THE CHAIRMAN: Well, scanned and paginated. I think that's all we need to do. So give that thought and tell us tomorrow where they've been put. MR SHIEH: Yes, very well. I now propose to call the second witness for the Commission, Mr Ma Chi-tak, also from the Marine Department. THE CHAIRMAN: Very well. Where do we find his statement? MR SHIEH: His statement is in Marine Department bundle 8, page 1878. Could the witness be shown his own statement. THE CHAIRMAN: Have you got your statement? Before that happens, let me ask you to take the oath or the affirmation as you choose. Would you stand to do so. MR MA CHI-TAK (affirmed in Punti) (All answers via interpreter unless otherwise indicated) Examination by MR SHIEH MR SHIEH: Mr Ma, please look at the document in front of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 an entry of 22:00. A. Yes. Q. Could you explain to us, perhaps more slowly, how the supervisor had added or amended or added in the two missing names? A. After he discovered that two staff, the names of two staff had been left out, he put it back and put in the signature afterwards. THE CHAIRMAN: Is that the original book you have in front of you? A. (In English) Yes, that's right. THE CHAIRMAN: May we have a look at that? Because that might even be legible. (Handed). If you don't mind, we'll copy it with a proper copying machine. A. Okay. MR SHIEH: Mr Chairman, the proposal is that we will have a separate bundle comprising documents that are handed up during the hearing. It's almost like an exhibit bundle. THE CHAIRMAN: Proceed as you wish, although there is some

Τ

	Page 93		Page 95
1	THE CHAIRMAN: There is merit, of course, in having	1	record, because some of the handwriting is a little bit
2	documents in areas where you have lots of paper	2	illegible.
3	where they should fit, rather than just putting them in	3	A. (In English) "Reported that she had collision with
4	an extra bundle.	4	Lamma IV off north Lamma Island. A number of passengers
5	MR SHIEH: Yes.	5	on board Lamma IV were falling overboard. HPS, Marpol
6	THE CHAIRMAN: Then you find you have things that, for	6	and FSD were informed. MRCC carried search and rescue
7	example	7	operation. TTT-186 in place. SMO/VTC and AD/PC
8	MR SHIEH: There may be a hodgepodge of documents belonging	8	informed."
9	to one bundle which make it rather more difficult	9	Q. A number of questions arise. Mr Ma, you mentioned in
10	later	10	that entry "HPS", in the second line. Could you help us
11	THE CHAIRMAN: So if we're interested, for example, in VTC	11	with what "HPS" stands for?
12	data, it should be in		A. It stands for "Harbour Patrol Section". It is a patrol
13	MR SHIEH: In the Marine Department bundle, rather than a	13	team of the Marine Department.
14	separate bundle called "Documents handed up". We'll	14	Q. The next line, "MRCC"?
15	take stock on that.	15	A. (In English) Are you saying "Marpol" or "MRCC"?
16	THE CHAIRMAN: Give that some thought.	16	Q. The next line.
17	MR SHIEH: Yes.	17	A. (In English) Next line, okay.
18	Mr Ma, what you are saying is that the document at	18	A. It stands for Maritime Rescue Co-ordination Centre.
19	page 1880 in front of you is different from the original	19	Q. Maritime Rescue Co-ordination Centre, thank you.
20	book that you have just handed up and which we will be	20	"TTT-186" is?
21	seeing in due course?	21	A. It is the serial number of the safety message. This one
22	A. Yes.	22	is the number 186 notice of this year.
23	Q. Because that book contains entires which were	23	Q. "SMO/VTC"?
24	subsequently added?	24	A. (In English) Senior marine officer of Vessel Traffic
25	A. Yes, correct.	25	Centre.
	Page 94		Page 96
1	Q. Very well. But perhaps we can actually proceed with our	1	Q. When you mentioned TTT-186, you said that it is a safety
2	your evidence in the absence of that book, because what	2	message.
3	I'm interested in is actually the content of the logs.	3	A. Yes.
4	Can I direct your attention to page 1880, in the	4	Q. What sort of safety message is it?
5	middle, where your box helpfully described the four	5	A. It is a message broadcasted to the vessels on the sea
6	columns: 20:25, VHF-14, Hai Tai, and VTC. Do you see	6	that this incident has happened, and they were reminded
7	that?	7	to exercise more caution and to report any abnormalities
8	A. Yes.	8	to the Marine Department and to escalate their look-out.
9	O Can way identify which individual it was who actually	0	
	Q. Can you identify which individual it was who actually	9	Q. So it's a broadcast made to vessels in immediate
10	wrote them in? Was it you?	10	response to this incident, on the spot?
10 11	wrote them in? Was it you? A. Yes, it was written by me.	10 11	response to this incident, on the spot? A. Yes.
10 11 12	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the	10 11 12	response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what?
10 11 12 13	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the substance of the remarks were identified as being made	10 11 12 13	response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control.
10 11 12 13 14	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you.	10 11 12 13 14	response to this incident, on the spot?A. Yes.Q. Thank you. "AD/PC" stands for what?A. That means our assistant director of port control.Q. Thank you. Can I ask you to move on to the next page,
10 11 12 13 14 15	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you.A. Yes.	10 11 12 13 14 15	response to this incident, on the spot?A. Yes.Q. Thank you. "AD/PC" stands for what?A. That means our assistant director of port control.Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that
10 11 12 13 14 15 16	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you.A. Yes.Q. So do I take it that this entry in the log was actually	10 11 12 13 14 15 16	response to this incident, on the spot?A. Yes.Q. Thank you. "AD/PC" stands for what?A. That means our assistant director of port control.Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right?
10 11 12 13 14 15 16 17	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you.A. Yes.Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on	10 11 12 13 14 15 16 17	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes.
10 11 12 13 14 15 16 17 18	wrote them in? Was it you?A. Yes, it was written by me.Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you.A. Yes.Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth?	10 11 12 13 14 15 16 17 18	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located?
10 11 12 13 14 15 16 17 18 19	 wrote them in? Was it you? A. Yes, it was written by me. Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you. A. Yes. Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth? A. This was written by me according to the information 	10 11 12 13 14 15 16 17 18 19	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located? A. It is located in another room on the same floor as the
10 11 12 13 14 15 16 17 18 19 20	 wrote them in? Was it you? A. Yes, it was written by me. Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you. A. Yes. Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth? A. This was written by me according to the information provided to me from my colleagues. 	10 11 12 13 14 15 16 17 18 19 20	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located? A. It is located in another room on the same floor as the VTC.
10 11 12 13 14 15 16 17 18 19 20 21	 wrote them in? Was it you? A. Yes, it was written by me. Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you. A. Yes. Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth? A. This was written by me according to the information provided to me from my colleagues. Q. I see. So you were not the person who received the VHF 	10 11 12 13 14 15 16 17 18 19 20 21	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located? A. It is located in another room on the same floor as the VTC. Q. Right. And the relevant entry is entered by someone
10 11 12 13 14 15 16 17 18 19 20 21 22	 wrote them in? Was it you? A. Yes, it was written by me. Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you. A. Yes. Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth? A. This was written by me according to the information provided to me from my colleagues. Q. I see. So you were not the person who received the VHF call; your colleague received the call and he passed 	10 11 12 13 14 15 16 17 18 19 20 21 22	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located? A. It is located in another room on the same floor as the VTC. Q. Right. And the relevant entry is entered by someone called Mr Andrew Kwok, right?
10 11 12 13 14 15 16 17 18 19 20 21 22 23	 wrote them in? Was it you? A. Yes, it was written by me. Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you. A. Yes. Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth? A. This was written by me according to the information provided to me from my colleagues. Q. I see. So you were not the person who received the VHF call; your colleague received the call and he passed information to you, and you logged the entry? 	10 11 12 13 14 15 16 17 18 19 20 21 22 23	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located? A. It is located in another room on the same floor as the VTC. Q. Right. And the relevant entry is entered by someone called Mr Andrew Kwok, right? A. Yes.
10 11 12 13 14 15 16 17 18 19 20 21 22	 wrote them in? Was it you? A. Yes, it was written by me. Q. Right. Because the box in the next column, the substance of the remarks were identified as being made by you. A. Yes. Q. So do I take it that this entry in the log was actually made by you as a result of you receiving a VHF call on channel 14 from the vessel Sea Smooth? A. This was written by me according to the information provided to me from my colleagues. Q. I see. So you were not the person who received the VHF call; your colleague received the call and he passed 	10 11 12 13 14 15 16 17 18 19 20 21 22	 response to this incident, on the spot? A. Yes. Q. Thank you. "AD/PC" stands for what? A. That means our assistant director of port control. Q. Thank you. Can I ask you to move on to the next page, 1881. This is the Port Management Office log; is that right? A. Yes. Q. Where is this Port Management Office located? A. It is located in another room on the same floor as the VTC. Q. Right. And the relevant entry is entered by someone called Mr Andrew Kwok, right?

	Page 97		Page 99
1	A. Yes, correct.	1	between the systems
2	Q. I know it's not your handwriting, but could you help us	2	THE CHAIRMAN: And then?
3	in reading out what you think to have been written	3	MR SHIEH: followed by Captain Pryke.
4	there, "Received" what?	4	THE CHAIRMAN: Very well.
5	A. I am going to read from this original copy, because it	5	Yes, Mr McGowan?
6	is quite illegible in the copy:	6	MR McGOWAN: Sir, you were asking me this morning about
7	"Received IIR from VTC regarding a collision between	7	materials for the naval architect. We can let the
8	'Hai Tai' and 'Lamma IV' near Shek Kok Tsui (Lamma	8	restricted request dealing with
9	Island)."	9	THE CHAIRMAN: Documents?
10	Q. What is "IIR"?	10	MR McGOWAN: those sort of items. We should be able to
11	A. (In English) Initial incident report.	11	let Lo & Lo have all the ones that we have that are
12	Q. Initial incident report?	12	being asked for by Friday noon.
13	A. (In English) Initial incident report.	13	THE CHAIRMAN: Thank you very much. That will enable our
14	Q. "Incident"?	14	experts to examine them and see if there are other
15	A. "Incident".	15	enquiries they need to make as a result. Thank you for
16	MR SHIEH: Mr Chairman, since the witness is actually	16	your co-operation.
17	referring to the original log, and I'm going to actually	17	10 o'clock tomorrow.
18	ask him similar questions about what's been entered into	18	(4.31 pm)
19	the log in relation to the next log, which is also	19	(The hearing adjourned until 10 am on the following day)
20	rather illegible, I wonder whether there's a better way	20	
21	of dealing with it? That is to say, he could actually	21	
22	hand over the original log for better copies to be made	22	
23	now, so that we could actually	23	
24	THE CHAIRMAN: How much more by way of questioning do you	24	
25	have of him?	25	
	Page 98		Page 100
1	MR SHIEH: I'm simply going to ask him to identify the	1	I N D E X
2	relevant entries and tell us what they are and then	2	
3	explain the relevant abbreviations.	3	Opening submissions by MR SHIEH2
4	THE CHAIRMAN: Very well.	5	MR YIM KIT-MING (affirmed in Punti)27
5	How many of these logs do you have with you, Mr Ma?	4	
6	A. Three copies.	5	Examination by MR SHIEH28
7	THE CHAIRMAN: Would you be kind enough perhaps to mark the	5	Examination by MR McGOWAN81
8	relevant page with a Post-it sticker, if someone could	6	
9	give you one, and then overnight we'll copy them and		(The witness withdrew)
10	we'll ask you to speak to the original tomorrow.	7	MR MA CHI-TAK (affirmed in Punti)90
11	A. Yes.	8	
12	THE CHAIRMAN: Thank you very much.		Examination by MR SHIEH90
13	It follows then that we're going to have to ask you	9 10	
14	to return tomorrow to continue your evidence, because	11	
15	we've now reached the end of our day. We'll resume	12	
16	tomorrow at 10 o'clock, if you'd be kind enough to be	13	
17	here in good time so that we can start at 10 o'clock.	14 15	
18	Thank you.	16	
19	MR SHIEH: Mr Chairman, after Mr Ma, I'm going to call	17	
20	Mr Yau Wing-hang, who is from the Marine Police, who	18 19	
21	will speak to the equivalent of what Mr Yim has spoken	20	
22	to this morning in relation to the print-out from the	21	
23	Marine Police system. Then after that we are going to	22 23	
24	call the gentleman from the service supplier, the	23	
25	equipment supplier, to explain any possible discrepancy	25	