

# REPORT OF THE INVESTIGATION INTO THE FAILURE OF THE PILOT LADDER FROM THE M.S "SYBILLE"

The Marine Casualty Investigation Board was established on the 25<sup>th</sup> March, 2003 under The Merchant Shipping (Investigation of Marine Casualties) Act 2000

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## SYNOPSIS

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### 1. SYNOPSIS

- 1.1 The M.S "Sybille" arrived at the pilot station of the port of Dublin at 05.30 hours on the 18th February 2004.
- 1.2 Whilst the pilot transfer was in progress the pilot ladder side ropes gave way.
- 1.3 The pilot and a section of ladder fell back onto the pilot cutter.
- 1.4 The pilot was uninjured and subsequently boarded the vessel from the port side using the M.S "Sybille" port side pilot ladder.

### 2. FACTUAL INFORMATION

2.1 Name of Vessel:
Call sign:
Port of Registry:
Flag:
IMO Number:
Year of Build:
Class GL
Owner:
Operator:
Chris

M.S. "Sybille" V2DT WISMAR ANTIGUA 9002128 1991

Ludtke Germany Christian Jurgensen,Brink & Wolffel, Germany.

2.2 Ship's particulars at Appendix 8.1.

The vessel was of conventional wooden construction, carvel planked on double sawn frames. It was a full-bodied hull cut away back to the sternpost. Built in 1947 trading as a crayfish carrier between Mauritania in North West Africa and France, it was one of the last wooden vessels built for that trade. After extensive refitting in 1987/88 and in 2002 it had a new engine and systems upgrade for chartering in North West Europe area (See Appendices 8.3 and 8.4).

2.3 Master and Crew of M.S "Sybille"

Name	Rank	Nationality
Kocakaya, Bulent	Master	Turkish
Es, Gurkan	Chief Officer	Turkish
Araci, Murat	Engineer	Turkish
Cil, Cuma	Deck Rating	Turkish
Bozdal, Erdal	Deck Rating	Turkish
Kartal, Latif	Deck Rating	Turkish
Yilmaz, Celal	Deck Rating	Turkish
Aktas, Muzaffer	Deck Rating	Turkish
Aycan, Tahsin	Deck Rating	Turkish
Ceylan, Ahmet	Deck Rating	Turkish

2.4 Ship's Agent in Dublin

Coastal Container Line, Pigeon House Road, South Bank Quay, Ringsend, Dublin 4.

2.5 Dublin Pilot: Mr Neil Myles

Pilot Cutter Cox: Mr Richard Saunders

Pilot Cutter Man: Mr Paddy Dunne.

## EVENTS PRIOR TO THE INCIDENT

## 3. EVENTS PRIOR TO THE INCIDENT

- 3.1 The Master of the "M.S Sybille" joined the vessel at Liverpool on the 17th of February 2004 at 19.00 hours.
- 3.2 The M.S "Sybille" sailed from Liverpool on the 17th of February 2004 at 20.15 hours.
- 3.3 The Master did not have a PEC (Pilot exception certificate for Dublin).
- 3.4 The Master ordered a pilot for the morning of the 18th February 2004.
- 3.5 Vessel arrived at the Dublin pilot boarding grounds at 05.30 hours.
- 3.6 Port and Starboard pilot ladders were permanently rigged on the open deck.

### 4. THE INCIDENT

- 4.1 The pilot cutter arrived alongside the starboard side of M.S "Sybille" at 05.50 hours.
- 4.2 The M.S "Sybille" starboard pilot ladder was lowered a distance of approx 2 meters by the M.S "Sybille's" crew.
- 4.3 The Pilot, Mr Neil Myles, placed his foot on the bottom step and began to transfer his weight on to the step.
- 4.4 At this point the pilot ladder side ropes gave way.
- 4.5 The ropes parted approx five steps up from the bottom of the ladder.
- 4.6 The parted section of the pilot ladder landed in the pilot cutter.
- 4.7 The pilot was uninjured.
- 4.8 The pilot called the ship's Master on VHF channel 12 and informed him that the pilot ladder had parted.
- 4.9 The Master of the M/S "Sybille" requested that the pilot board from the port side.
- 4.10 The pilot boarded the M/S "Sybille" from the port side at approx 05.50 hours using the port side pilot ladder.

## 5. EVENTS AFTER THE INCIDENT

- 5.1 The M/S "Sybille" berthed without incident at Berth number 45 at 06.30hours.
- 5.2 The Master of the M/S "Sybille" inspected the pilot ladders after the vessel berthed and "decided to renew my port side ladder immediately and renew other after port authorities checking" (Quote from master's statement at Appendix 8.2)
- 5.3 The port side ladder had been chopped and all that remained was the steps. The rope remains were in the same condition as the starboard pilot ladder.
- 5.4 The remains of the starboard pilot ladder, which landed in the pilot cutter, were sent to Tension Technology International Ltd for testing (See Appendix 8.3)
- 5.5 The Master ordered a new pilot ladder and this was delivered before the M/S "Sybille" sailed from Dublin.
- 5.6 The new pilot ladder was supplied with a certificate of warranty (See Appendix 8.5).
- 5.7 M/S "Sybille" sailed for Liverpool at 21.00 hours on the 18th February 2004.

## 6. CONCLUSIONS

- 6.1 Port and Starboard pilot ladders were both in the same condition and both ladders were not fit for use as per SOLAS Chapter V Regulation 23 (Pilot transfer arrangements).
- 6.2 Port and Starboard pilot ladders were permanently rigged and open to damage from the weather, the action of the seas and the sun. This is a contraventation of SOLAS Chapter V Regulation 23 2(2.1)
- 6.3 There is no evidence of pilot ladders from M.S "Sybille" having been regularly inspected as per SOLAS Chapter V Regulation 23 2(2.1)g
- 6.4 The report from Tension Technology International came to the following conclusions:
  - The failure is caused by a significant loss of strength in the ropes used in the ladder construction, caused by external abrasion. Added to this, the position of the failures in each leg suggest that flex fatigue has also contributed to loss of strength.
  - The general appearance of the ladder suggests that it has been in service for a considerable period of time.
  - It would appear that the ladder has not been subjected to regular inspection within existing guidelines and recommendations for safe working with fibre ropes (Ref 2, 3, 4, 5, 6)
  - Appendix 8.2 is an extract from ' The Admiralty Manual of Seamanship' 1983, regarding the subject of Care and Maintenance of natural fibre ropes.

## 7. RECOMMENDATIONS

- 7.1 It is recommended that a report of the incident be sent to the Antigua and Barbuda Government Marine Administration where the ship is registered.
- 7.2 A Marine Notice should be issued reminding owners and shipmasters of the requirement to provide safe means of pilot transfer, the proper stowage and regular inspection of pilot ladders as per SOLAS Chapter V, Regulation 23 2(2.1)
- 7.3 Pilot transfer arrangements and pilot ladders should be inspected during Port State Control inspections.
- 7.4 Pilot ladders should have a certificate stating their year of manufacture and compliance in line with IMO Resolution A.889 (21)

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### 8. LIST OF APPENDICES

- 8.1 M/S "Sybille" Ship Particulars.
- 8.2 M/S "Sybille" Master's Statement.
- 8.3 Executive Summary and Report of examination, sampling and testing by realisation method to determine rope residual strength and likely cause of failure of pilot's ladder from M/S "Sybille".
- 8.4 Photographs from M/S "Sybille".
- 8.5 Certificate of warranty for new pilot ladder supplied.

# APPENDIX 8.1

## Appendix 8.1

## Ship Particulars

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Sim LANI	CUL	ARS	STCW 9	5			., -	
CALL SIGN		V2DT		IMO	NO			900 71 78
FLAG		ANTIGUA		POR	TOFR	EGISTR	Y i	WISMAR
SHIP YARD		Kröger Werf	Rendsburg	YEA	ROFB	UILT		1991
GL-Register-No.		33205		ome	al-no			2073
Ship - Class	:	GL+100A5M	r	MM	SI-No.		:	304 489 000
OWNER	I	Lüdtke KG Feldstrasse 4 D – 24768 R/	l endsburg					GERMANY
OPERATOR	:	CHRISTIAN	JÜRGENSE	N, BR	INK &	<b>VOLFFE</b>	L GmbH	& CO.
		SCHIFFBRU D - 24939 FI	CKE 24 ENSBURG					GERMANY
	-	PHONE + 4	49 461 807 B	24 F.	AX: +4	9 461 80	7 888	
ENGINE		MAN Burmei	ster + Wain /	ALPI	A DIES	EL	Type	:12V 28/32 A
Maker's No.	:	1751 9	E-Class	: GL+	MC AU	GL-R	leg.:	GL 77 812 K
Total Rate Power	:	2640 kW / 35	90 hp			PRM	1	750 'min
BUNKER IFO S	):	261 mt	MGO	:	1m 88		FW	55 mt
GROSS TONNAGE	:	3125	NÉT TO	NNA	GE		:	1619
DRAFT, MAX. (S)	:	6,142 m						
DISPL. MAX (S)	:	5976 tn	DWGT;	мах	(S)		:	4500 tn
Calm sea speed	:	14,6 km						
LENGTH OVERALL	:	89,10 m	BREAD	н			:	16,00 m
DEPTH	:	7,80 m	HIGH M	AINI	ECK		:	7,80 m
AIR DRAUGHT MAX Mast up with draft 3,50 n	;	27,00 m	FREEBO	ARD	(min)		:	1,66 m
ANCHOR CHAIN		· PORT			8 shark	vels		
1 shackel = 27.7 m = 15	ftms )	STAR	BOARD		9 shack	els		
ALL BOUS		. VES						
		. 165				_		
VPE OF BUIDDEP		STEERI	Beeler	ULA	MAY	NCE		458
ARD-OVER TO HAR	D-OVER	R :	27 sec / 1	power	unit	ANGEL		43
OWTHDUSTED			14 sec / 2 1	power	units			
O TEROJER			274 8.14	401	ιψ			
IOLD DIMENSION		: L: 51,	4 m W	: 13	,3 m	H: 8,8	m	
ONTAINER CAPACIT	Y		20ft 30	n	40ft	24,5ft	49ft	
	DECK		150		60			
FFFFF PLUCS	TOTAL	-	260 57		113	60	30	
OLD CAPACITY		Crain	4941 4 ml			106616	ch ß	

Statement of Pilot Ladder

M/V SYBILLE

18.02.2004

#### STATEMENT OF PILOT LADDER

I, Master of m/v SYBILLE hereby inform that I joined to the my vessel at liverpool on 17.02.2004 at 19.00 and sailed from Liverpool to Dublin on 17.02.2004 at 20.15 and arrived to Dublin TST 'C' point on 18.02.2004 at 05.30 and arrived Dublin Bay buoy at 05.50. Pilot boat alongside to my vessels starboard side for embark to the ship. After alongside to starboard side; my boatswain let down pilot ledder. When pilot start to upstairs to first step of the ladder; it has been broken. Pilot informed me that pilot ladder has been broken and I said that please come on board port side ladder. Pilot boat alongside to my vessel port side and pilot embarked to my ship. After that my vessel berthed safely with pilot. After berthing operation I checked 2 both side pilot ladders and I decided to renew my port side pilot ladder immediately and renew other after port authprities checking. I communicated with ship owner and decided to supply approved new pilot ladder will be on board before sailing.

Best Regards.

KOCAKAYA BÜLENT MASTER OF M/V SYBILLE

**ABITTE**.

## **APPENDIX 8.3**

#### Appendix 8.3



## Report by Tension Technology International

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	Tension Technology International
TERMS AND	ABBREVIATIONS
TTI	Tension Technology International
DepCMNR	Department of Communications, Marine and Natural Resources
Rope	Rope is made up of four <b>strands</b> twisted together around a core.
Strand	Strand is made up of a number of <b>rope yarns</b> twisted together
Rope Yarn	Rope Yarn is made up of manila fibres twisted together
Tensile Test	Method of determining the response of materials to a load or tensile [pulling] force
Breaking load	Maximum force recorded during a tensile test.
Breaking strain	The extension of the material under test, at breaking load, expressed as a % of the original length of the sample.
Fatigue	Term covering several different mechanisms by which rope strength can be adversely affected. In particular, loss of performance due to <b>flex fatigue</b> is caused by repeated bending of a rope at a localised position.
Stress raising	A very localised elevation of force within a rope, usually caused by discontinuities in the rope structure, such as a splice.
Abrasion	In ropes, can be either external abrasion to the surface of the rope, or internal abrasion caused by relative movement of the rope elements
Dry Rope Strength	Depending on the fibre used in rope construction, some ropes may have a reduced tensile performance when wet. All assessment of rope performance is done on the basis of the rope being dry.
Realisation	Method by which an estimate of rope strength can be made, from knowledge of the strength of its individual components
Residual Strength	Ratio of the estimated breaking strength [by realisation] of the rope to its minimum specified breaking strength. Expressed as a $\%$
KiloNewton kN	Unit of force, 10 kN is approximately 1 Tonnef
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## Appendix 8.3

	Tensio	n Technology Interr	lational	
EXECUTIVE S	UMMA	ARY		
The Pilot's Ladder was International, Arbroath	delivered , courtesy	by hand to the pren of Mr J Carolan, Du	nises of Tension Technology Iblin Port Co.	
The ladder had failed b part was delivered to T	etween the TI.	e third and fourth bo	ttom spans and only this lower	
The ladder was visually for their tensile propert rope strength was calcu	v inspected ies. From lated.	l by TTI and then its this tensile informat	s various components were teste ion, an estimate of residual dry	d
The rope, from which t [Type B], of approxima	he ladder v ite diamete	was made, was a fou er 22 mm.	ir strand shroud laid constructio	n
It was found, on visual to the rope components component rope yarns]	inspection . Untwisti confirmed	n, that there was sign ng the rope and its o l the presence of sev	nificant external abrasion damag component strands [to reveal the /ere abrasion damage.	e
Tensile testing of the ro affected the general stru- test individual rope yar	ope strands ength of th ns, as the o	s revealed the exten the rope within the la damage was too sev	t to which the abrasion had dder part. It was not possible to ere.	
The table below shows from one position with considered unnecessary	the estima n the ladd	ated dry rope breaking er. The result was so	ng load and its residual strength o low that further testing was	
Minimum Dry Rope Breaking Load [EN 698:1995] Type B, Ref No. 22 <b>32.3 kN, 3.29 Tonnef</b>	Br Load Tonnef	Residual Strength %		
	0.053	1.6		
The estimated dry breat strength of new rope is	king streng 3.29 tonn	gth is 0.053 tonnef, lef. The residual stre	whilst the minimum breaking ength is 1.6%.	
Thus, substantial deteri	oration ha	s occurred in the roj	be performance.	
The degree of visible al for a considerable perio deployments].	orasion da d of time	mage found suggest [ or had experienced	s that the rope had been in use a very high number of	
No evidence of chemic confirmed by further in	al or micro vestigation	bbial attack was seen n by optical microso	n, but their absence can only be copy.	

## APPENDIX 8.3 CONTD.

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It does not appear that the recommendations f	the ladder had been subjected to or inspecting ropes and rope stru	regular inspection in line with ctures.	
Inspection to CMI/OCI deteriorated and should	IMF guidelines would have show d have beed rejected well before t	n that this rope had his failure.	
	D 5 615		
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## APPENDIX 8.3 CONTD.

#### Appendix 8.3



Tension Technology International As well as the general external abrasion damage seen, there was also rope-on-rope abrasion, between the pairs of ropes in each leg. Photographs 4 and 5 show examples of external abrasion damage seen, these being from the left-hand leg of the ladder. Photo 4 External abrasion Photo 5 External abrasion DepCMNR TTI 26/02/2004 Page 8 of 17

## Report by Tension Technology International



break of core yarns

damage

The damage can be clearly seen. Above the lower two strands, the inner core is laid out. This was found to be broken in two places along the one metre length sampled for testing, and therefore was not tensile tested.

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#### Report by Tension Technology International

Tension Technology International 2.2 Tensile results and dry rope residual strength by realisation 2.2.1 Tables of results The rope yarns were found to be in such poor condition that tensile testing would be meaningless. Three strands were tested, however, the results being showed in Table 2 Table 2 Summary of Rope Yarn Tensile Results Outer rope yarn Br Load Br Ext Ν % 227 Strand 4.6 The results confirm the findings of the visual examination, that the rope had suffered considerable abrasion damage. 2.2.2 Estimate or rope strength by realisation Table 4 shows the estimated dry rope strength and % residual strength. The core assembly of two yarns was found to be broken in two places over the short distance sampled [1000 mm] and was not tested for tensile strength. Thus, no extra contribution to rope strength from the core yarns is included in the calculation.

#### Table 4 Calculation for estimate of dry rope strength by realisation

	Strands	Ave BL	Total BL
		kN	kN
Strand	4	0.227	0.904
realization factor			0.58
dry rope calculated break load, kN			0.524
[dry rope calculated break load, tonnef]			[0.053]
minimum new dry break load			32.3
% residual strength			1.6

The average breaking strength of the rope is 0.053 Tonnef, whilst the minimum breaking strength of new rope is 3.29 Tonnef.

The average residual strength is 1.6%.

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## Appendix 8.3

		Tension Technology Intern	ational
3. E	ISCUSSIO	N AND CONCLUSIONS	
3.1	Discussion	n	
The f	ailure was loca ruct the ladder	ated just above the wooden spacer , between spans 3 and 4, as counte	s in each of the two legs used to ed from the lowest span.
The v throu space	visual inspection ghout the whole ers, indicates the	on of the ladder revealed damage of le assembly. The position of the fa hat localized flex fatigue has also o	due to external abrasion ailures, just above wooden contributed to loss of strength.
Unra yarns	velling of rope confirmed the	samples, to reveal the strands and e extent of the abrasion damage.	then their component rope
Tens deter estim	le testing revea lorated when co ated to have a	aled the degree to which the rope ompared to its minimum 'as-new residual strength of just 1.6%	tensile performance had ' breaking force. The rope was
A fin for a in per Appe micro have	al point is that considerable p formance due ndix 3]. Whils bial attack, it i played its part	the general condition of the ladde eriod of time. With natural fibre re- to microbial and chemical attack, t there was no visual evidence of of is entirely possible that degradatio in a general reduction of the rope	r suggests that it had been in use opes, there can be a deterioration and repeated wetting [see chemical degradation or on due to repeated wetting would performance.
3.2	Conclusio	ons	
¢	# The failure ladder constr the failures i strength.	is caused by a significant loss of s ruction, caused by external abrasic in each leg suggest that flex fatigu	strength in the ropes used in the on. Added to this, the position of e has also contributed to loss of
¢	# The general considerable	appearance of the ladder suggests e period of time.	that it has been in service for a
¢	# It would app within existi ropes (Ref 2	bear that the ladder has not been suing guidelines and recommendation, $3, 4, 5, 6$ )	ubjected to regular inspection ns for safe working with fibre
¢	# Appendix 2 regarding the	is an extract from ' The Admiralty e subject of Care and Maintenance	y Manual of Seamanship' 1983, e of natural fibre ropes.

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	Tension Technology Internation	onal
References		
1. The Durability o	f Polyester Ropes, JIP co-promoted a	nd managed by NEL and TTI
<ol> <li>2. "The selection, u</li> </ol>	use, care, inspection and maintenance	of non-metallic ropes and
cords" United King 3. "Mooring Equip Marine Forum 199	dom Defence Standard DEF STAN 4 oment Guidelines", 2 <sup>nd</sup> Edition, Oil Co 7.	0-7/1. ompanies International
<ol> <li>"Admiralty Mai 5. "The selection, u British Standard BS 6. Cordage Manufa</li> </ol>	nual of Seamanship' III 1983 se and care of man-made-fibre ropes S 4128 1967 : Now lapsed, not replace cturers Institute, Recommendations f	in Marine applications". ed. or Rope Safety, 1984.
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#### Appendix 8.3





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#### Appendix 8.3



## APPENDIX 8.3 CONTD.

#### Appendix 8.3

Report by Tension Technology International

Tension Technology International

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## Appendix 8.4

Photograph numbers 1 and 2 showing section of pilot ladder that fell into the pilot vessel.





## APPENDIX 8.4 CONTD.

#### Appendix 8.4

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Photograph numbers 3 and 4 showing section of pilot ladder that fell into the pilot vessel.

![](_page_31_Picture_3.jpeg)

![](_page_31_Picture_4.jpeg)

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#### Appendix 8.4

Photograph numbers 5 and 6 showing sections of the port side pilot ladder that were removed from the remainder of the ladder on the M/S "Sybille"

![](_page_32_Picture_4.jpeg)

![](_page_32_Picture_5.jpeg)

## APPENDIX 8.4 CONTD.

#### Appendix 8.4

Photograph number 7 showing sections of the port side pilot ladder that were removed from the remainder of the ladder on the M/S "Sybille"

![](_page_33_Picture_3.jpeg)

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## Appendix 8.4

Photograph numbers 8 and 9 showing sections of the starboard side pilot ladder (broken one)

![](_page_34_Picture_5.jpeg)

![](_page_34_Picture_6.jpeg)

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Photograph numbers 10 and 11 showing starboard side of the M/S "Sybille"

![](_page_35_Picture_3.jpeg)

![](_page_35_Picture_4.jpeg)

E

## Appendix 8.4

Photograph numbers 12 and 13 showing starboard ladder. Section that remained on the M/S "Sybille"  $\,$ 

![](_page_36_Picture_5.jpeg)

![](_page_36_Picture_6.jpeg)

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Photograph numbers 14 and 15 showing starboard ladder. Section that remained on the M/S "Sybille"  $\!\!$ 

![](_page_37_Picture_3.jpeg)

![](_page_37_Picture_4.jpeg)

#### Goodyear & Hick Ltd Certificate of Warranty

## **GOODYEAR & HICK LTD**

Unit 4 Girain Industrial Estate Harlow Street Liverbool L8 4UH 0151 708 6520 Tel: Fax: 0161 709 3225

CUSTOMER:	DATE:
J C Altham & Sons Limited	18" February 2004
Anchor Building	CERFITICATE NO.
Penrod Way	1736
Heysham	YOUR ORDER NO.
LA3 2UZ	18/2/Breeze/70

#### Certificate of Warranty for Fibre Robe / Webbing

We hereby certify that the Goods supplied against your order on leaving our works complies with the requirements of the specification enumerated below.

REFERENCE: 4.5metre pilot ladder	QUANTITY:	1
STRENGTH: 2, 44 tonne on a single part	CONSTRUCTION:	3 strand
DESCRIPTION. 19mm House	SIZE;	18mm
Of the ladder	pe used as the side rope	5

## SAFE WORKING LOAD OF LIFTING GEAR

The maximum safe working load of this lifting gear when supplied new from our factory and used at an angle not exceeding between any of the parts bearing the loads is

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## FOR GOODYEAR & HICK LIMITED

In the absence of instructions from the user, the safe working load quoted is the maximum allowance for this size, and quality of rope stated used in the defined lifting mode. In advance operating conditions it is necessary for the user to institutes bookiet/code of practice "Lifting Tacide" to obtain further information in such cases is strongly recommended.

## 9. LIST OF CORESPONDENCE RECEIVED

Corespondent	Page No.
Coastal Container Line Ltd.	41
MCIB Response	41

## 9. CORESPONDENCE RECEIVED

![](_page_40_Picture_3.jpeg)

![](_page_40_Picture_4.jpeg)

Coastal Container Line Ltd South Bank Quay, Dublin 4

Mr R Heron Secretary Marine Casualty Investigation Board Leeson Lane Dublin 2.

Date: 11th November 2004.

Your Reference: MCIB 84.

We are in receipt of your draft report of the investigation into the failure of the Pilot ladder from M.V. Sybille on 18th February 2004.

We have no comments or observations to make on this matter.

J Dent

Safety Manager

MCIB RESPONSE The MCIB notes the contents of this letter.

# NOTES


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# NOTES

1	