

Date of issue: January 2017





ABP South Wales and River Usk Towage Guidelines



Date of issue: January 2017

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AMENDMENTS

number One Two	16 & 17 16	by (Initials) WPB WPB	amendment 23/10/17 23/01/18
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1.0 Document Control

1.1 Approval and issue

This document has been approved by the Marine Operations Manager South Wales. As a major revision it has been designated a new issue number.

1.2 Amendment procedure

As this document is reviewed through time it may be deemed necessary to make amendments to its content and procedures. Such amendments will only be made with the prior consent and approval of the Marine Operations Manager South Wales. This document will be maintained as an electronic document, will be available for all port users and stakeholders to view in PDF format on the South Wales ports website

1.3 List of document holders

An electronic master copy of this document will be maintained at Cardiff LPS.



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2017			

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2.0 Introduction

The purpose of this document is:

- To comprehensively document written procedures for harbour and escort towing within the ABP South Wales and / or Newport Harbour Statutory Harbour Authority (SHA) areas of jurisdiction
- To fulfil the requirements of the Port Marine Safety Code and the ABP Group and Regional Port Marine Safety Management Systems with regard to towage. Accordingly this document lays down criteria that towage operators, their management and towage users should meet

The following should be noted:

- These guidelines have been prepared after consultation with towage users and providers in the ABP South Wales and / or Newport Harbour SHA areas of jurisdiction
- There will be circumstances where towage operations will need to be performed outside of these guidelines. Deviation must only occur after consultation with and the sanction of the Harbour Master or Marine Operations Manager South Wales or an appropriate marine officer who has been delegated.
- These guidelines will be reviewed as required



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3.0 Administration and Allocation

3.1 Towage Providers

Any towage provider that wishes to provide towage services in the ABP South Wales and / or Newport Harbour SHA areas of jurisdiction must satisfy the procedure for harbour towage licencing that's purpose is to confirm that the towage operators operations are compliant with statutory safety management procedures and the requirements of the PMSC.

As part of the above licencing process, the Marine Operations Manager must be provided with the following documents

- A copy of (or electronic link to) the Towage providers Safety Management System
- Operational Information on each tug to be employed
- Certificates of Class (Hull and Machinery)
- Flag state Safety Equipment Certificate
- Load line Certificate (if applicable)
- Recent bollard pull test certificate

In addition to the above, for tugs that may be employed in an active Escort role

Appropriate Stability information.

3.2 Tug Crews

All Tugs operating in the ABP South Wales and/ or Newport Harbour SHA areas of jurisdiction must be manned in accordance with flag state requirements and at a safe level with regard to crew number.

3.3 Notes on Towage Guidelines



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It should be borne in mind by Masters Owners, Operators, Charterers and Agents that the advice given in these guidelines is based on the following

A minimum 25 tonnes bollard pull for the "made fast" primary tugs

The guidelines can be described, under normal conditions, to be the lowest common denominator with respect to ABP South Wales and / or Newport Harbour Towage requirement and can be considered to be a base line guide.

It is however recognised that there is considerable variation in vessel shape condition and manoeuvring capability, for this reason the baseline towage requirement has been further refined so as to consider manoeuvring aids such as thrusters and high lift rudders. First call vessels are obliged to engage the guideline tug requirement, an assessment can be requested to establish future towage requirement for a given vessel. A database of assessed vessels will be maintained at Cardiff LPS which may further refine towage requirements for regular calling vessels. When assessing any variation from the towage guideline the following will be considered.

- The Draft and Trim of the Vessel
- The expected manoeuvre to be undertaken
- The Minimum UKC expected during the estuary passage and dock system
- Tidal range (spring or neap)
- Forecast and actual weather conditions
- Expected sea and swell conditions at lock / Harbour entrances
- Type of Rudder
- Manoeuvring aids, thrusters type and number
- Type of Main propulsion
- Type of steering system and rudder(s)
- Windage area
- Physical dimensions in relation to Gross Tonnage (GT)
- Any unusual vessel design features
- Any reported defects
- Type of main engine
- Any lock restrictions in force

The following tables have been drawn up from information gained from previous tug use, this approach bringing a more practical approach to tug allocation.

The tables are entered with the vessels length and the port. This will give the number of tugs required.

Referencing the table with the <u>operational</u> manoeuvring aids that the vessel is fitted with and whether loaded or in ballast will refine the tug requirements.

Specialist vessels such as cruise vessels and vessels of unusual design will require an individual assessment.



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Tug Allocation Table

Docking

					Bow Thruster		power of	or		
					Up to 300KW	500KW+	Up to 300KW	300- 500KW	1000KW+	Azipod with suitable Bow Thruster
	Barry	(a)(b)(d)	Ballast							_
			Loaded							
<90m	Cardiff	(a)(b)(d)	Ballast							_
-		(1.) (1)	Loaded							
	Newport	ort (b)(d)	Ballast							_
	2 ()(()()	() () ()	Loaded							
00	Barry	(a)(b)(d)	Ballast	1+0						_
90m	C - 1:cc		Loaded	1+1						
To 100m	Cardiff	(b)(d)	Ballast	1+0						-
100111	Marriagni	(P)(9)(t)	Loaded	1+1						
	Newport	(b)(d)(f)	Ballast Loaded	1+0 1+1						_
	Barry (a)(b)(d)	(a)(b)(d)	Ballast	1+1						
100m		(a)(b)(u)	Loaded	1+0						-
To	Cardiff	(a)(b)(d)	Ballast	1+0	1+0					
115m	Caram	(a)(b)(a)	Loaded	1+1	1+1					-
	Newport	(b)(c)(d)	Ballast	1+0	1+0					
		(f)(g)	Loaded	1+1	1+1					_
	Barry	(a)(b)(d)	Ballast	2+2	1+0	1+0	1+0			
115m	,	(-)(-)(-)	Loaded	2+2	1+1	1+1	1+1			_
То	Cardiff	(a)(b)(d)	Ballast	2+2	1+0	1+0	1+0			
130m			Loaded	2+2	1+1	1+1	1+1			_
	Newport	(b)(c)(d)	Ballast	2+2	1+0	1+0	1+0			_
		(g)	Loaded	2+2	1+1	1+1	1+1			_
(a)	All vessel	carrying ch	emicals in	bulk shoul	d engage a	t least one t	ug in secur	e mode.	•	
(b)	All vessels mode.	carrying m	narine pol	lutants in b	ulk, should	on their firs	st visit enga	ge at least o	one tug in se	cure
(c)	Vessels of	10m or mo	ore in draf	t will requi	re 3 tugs w	hen manoe	uvring in do	ock		
(d)	A steady w	vind speed	of 25Kn (force 5) ma	y necessita	te the use o	of a third tu	g if not alre	ady allocated	l.
(e)	Vessels re	quired to b	ack throu	gh the com	pass passa	ge will requ	ire 3 tugs.			
(f)					the cut Loa		-			
(g)						require a t	ug when in	North Dock		



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Tug Allocation Table

Docking

Length	Port	Notes	Draft	No Aids	Bow Thruster		High lift r thruster v power of:		Twin Screw or	
					Up to 300KW	500KW+	Up to 300KW	300- 500KW	1000KW+	Azipod with suitable Bow Thruster
	Barry	(a)(b)(d)	Ballast	2+2	2+2	2+2	2+2	1+0	1+0	_
130m			Loaded	2+2	2+2	2+2	2+2	1+1	1+1	
То	Cardiff	(b)(c)(d)	Ballast	2+2	2+2	2+2	2+2	1+0	1+0	_
150m		(e)	Loaded	2+2	2+2	2+2	2+2	1+1	1+1	
	Newport	(b)(c)(d)	Ballast	2+2	2+2	2+2	2+2	1+0	1+0	_
			Loaded	2+2	2+2	2+2	2+2	1+1	1+1	
	Barry	(a)(b)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+1	_
150m			Loaded	2+2	2+2	2+2	2+2	2+2	2+1	
То	Cardiff	(b)(c)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+2	_
175m		(e)	Loaded	2+2	2+2	2+2	2+2	2+2	2+2	
	Newport	(b)(c)(d)	Ballast	3+2	3+2	3+2	3+2	3+2	2+2	_
			Loaded	3+2	3+2	3+2	3+2	3+2	2+2	
	Barry	(a)(b)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+2	_
			Loaded	2+2	2+2	2+2	2+2	2+2	2+2	
>175m	Cardiff	(b)(c)(d)	Ballast	3+2	3+2	3+2	3+2	3+2	3+2	_
		(e)	Loaded	3+2	3+2	3+2	3+2	3+2	3+2	
	Newport	(b)(c)(d)	Ballast	3+2	3+2	3+2	3+2	3+2	3+2	_
			Loaded	3+2	3+2	3+2	3+2	3+2	3+2	
(a)	All vessel	carrying ch	emicals in	bulk shoul	d engage a	t least one t	ug in secur	e mode.		
(b)	All vessels mode.	carrying m	narine pol	utants in b	ulk, should	on their firs	st visit enga	ge at least o	one tug in se	cure
(c)	Vessels of	10m or mo	ore in draf	t will requi	re 3 tugs w	hen manoei	uvring in do	ck		
(d)	A steady v	vind speed	of 25Kn (force 5) ma	y necessita	te the use o	of a third tu	g if not alrea	ady allocated	l.
(e)	Vessels re	quired to b	ack throu	gh the com	pass passa	ge will requi	ire 3 tugs.			



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Tug Allocation Table

Sailing

Length	Port	Notes	Draft	No Aids	Bow T	Bow Thruster		udder or st with a Bow :		Twin Screw or
					Up to 300KW	500KW+	Up to 300KW	300- 500KW	1000KW+	Azipod with suitable Bow Thruster
	Barry	(a)(b)(d)	Ballast Loaded							_
<90m	Cardiff	(b)(d)	Ballast Loaded							_
	Newport	(b)(d)(f)	Ballast Loaded							_
90m	Barry	(a)(b)(d)	Ballast Loaded	1+0	1+0					
To 100m	Cardiff	(b)(d)	Ballast Loaded	1+0	1+0					
	Newport	(b)(d)(f)	Ballast Loaded	1+0	1+0					
100m	Barry	(a)(b)(d)	Ballast Loaded	1+0 1+0	1+0 1+0					
To (Cardiff	(a)(b)(d)	Ballast Loaded	1+0 1+0	1+0 1+0					
	Newport	(b)(d)(f) (g)	Ballast Loaded	1+0 1+0	1+0 1+0					
110m	Barry	(a)(b)(d)	Ballast Loaded	1+0 2+1	1+0 1+0					
To 120m	Cardiff	(a)(b)(d)	Ballast Loaded	1+0 2+1	1+0 1+0					
	Newport	(b)(d)(f) (g)	Ballast Loaded	1+0 2+1	1+0 1+0					
120m	Barry	(a)(b)(d)	Ballast Loaded	2+1 2+1	1+0 1+0	1+0 1+0				
To 130m	Cardiff	(a)(b)(d) (e)	Ballast Loaded	2+1 2+2	1+0 2+1	1+0 1+1				
	Newport	(b)(d)(f) (g)	Ballast Loaded	2+2 2+2	1+1 2+1	1+0 1+1				
(a)	All vessel		emicals in	bulk shoul	ld engage a	t least one t	ug in secur	e mode.		1
(b)	All vessels mode.	carrying m	narine pol	lutants in b	ulk, should	on their firs	st visit enga	ge at least	one tug in se	cure
(c)				•		hen manoe				
(d)	A steady v	vind speed	of 25Kn (force 5) ma	ny necessita	ite the use o	of a third tu	g if not alre	ady allocated	d
(e)		-				ge will requ				
(f)	Vessels of >15.0m beam when transiting the cut Loaded and or in windy conditions will require a tug.									
(g)	Vessels of	over 122m	n with out	manoeuvr	ing aids wil	l require a t	ug when in	North Dock	(



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Tug Allocation Table

Sailing

					Bow Thruster High lift rudder or ster		ern	Twin			
Length	Port	Notes	Draft	No Aids	thruster with a Bow		Thruster	Screw			
								power of:			
					Up to		Up to	300-	1000KW+	Azipod	
					300KW	500KW+	300KW	500KW		with	
										suitable	
										Bow	
		/ \// \/ I\	5.11		1.0	1.0				Thruster	
420	Barry	(a)(b)(d)	Ballast	2+1	1+0	1+0	1+0			_	
130m	0 1100	(1.)(.)(.)	Loaded	2+1	2+1	1+0	1+0	1+0	1+0		
To	Cardiff	(b)(c)(d)	Ballast	2+1	1+0	1+0	1+0	1+0	1+0	_	
140m		(e)	Loaded	2+2	2+1	1+1	1+1	1+1	1+0		
	Newport	(b)(c)(d)	Ballast	2+2	1+1	1+0	1+1	1+0	1+0	_	
			Loaded	2+2	2+2	1+1	1+1	1+1	1+0		
	Barry	(a)(b)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+1	_	
140m			Loaded	2+2	2+2	2+2	2+2	2+2	2+1		
То	Cardiff	(a)(b)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+1	_	
175m		(e)	Loaded	2+2	2+2	2+2	2+2	2+2	2+2		
	Newport	(b)(c)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+2	_	
			Loaded	2+2	2+2	2+2	2+2	2+2	2+2		
	Barry	(a)(b)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+2	_	
			Loaded	2+2	2+2	2+2	2+2	2+2	2+2		
>175m	Cardiff	(b)(c)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+2	_	
		(e)	Loaded	2+2	2+2	2+2	2+2	2+2	2+2		
	Newport	(b)(c)(d)	Ballast	2+2	2+2	2+2	2+2	2+2	2+2	_	
			Loaded	2+2	2+2	2+2	2+2	2+2	2+2		
(a)	All vessel	carrying ch	emicals in	bulk shoul	d engage at	t least one t	ug in secure	e mode.			
(b)	All vessels mode.	carrying m	narine pol	utants in b	ulk, should	on their firs	st visit enga	ge at least o	one tug in se	cure	
(c)	Vessels of	10m or mo	ore in draf	t will requi	re 3 tugs wl	nen manoei	uvring in do	ck			
(d)	A steady v	vind speed	of 25Kn (force 5) ma	y necessita	te the use o	of a third tug	g if not alrea	ady allocated	l.	
(e)	•	<u> </u>	•	-	•	ge will requi		-	•		



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Tug Allocation Table
River Usk

Length	Port	Draft	Notes		No Aids		Bow Thruster High lift rudder or stern thruster with Bow Thruster power of:							r with	Twin screw or Azipod with suitable	
Ū				Docking	Sailing	Up to 3	300KW	300-50	00kW	Up to 3	300KW	300-5	00KW	1000	KW+	Bowthruster
						Docking	Sailing	Docking	Sailing	Docking	Sailing	Docking	Sailing	Docking	Sailing	
	Birdport	Ballast	(d)	-	-	-	-	-	-	-	-	-	-	-	-	-
<90m		Loaded	(e)	-	-	-	-	-	-	-	-	-	-	-	-	
	Liberty	Ballast	(d)	-	-	-	-	-	-	-	-	-	-	-	-	-
		Loaded		-	-	-	-	-	-	-	-	-	-	-	-	
90m-		Ballast	(d)	-	-	-	-	-	-	-	-	-	-	-	-	-
100m	Birdport	Loaded	(e)(f)	1	1	-	-	-	-	-	-	-	-	-	-	
100m-		Ballast	(d)	1	1	-	-	-	-	-	-	-	-	-	-	
110m		Loaded	(e)(f)	1	1	-	-	-	-	-	-	-	-	-	-	
90m- 110m	Ballast	(d)	-	-	-	-	-	-	-	-	-	-	-	-		
	Loaded		1	1	1	1	-	-	-	-	-	-	-	-	- 	
110m- 150m Birdport	Ballast	(d)(f)	2	1	2	1	1	1	-	-	-	-	-	-		
	Loaded	(e)	2	2	2	2	1	1	_	_	_	_	_	_	-	
110m-	Liberty	Ballast	(b)	1	1		 -			_	_	_	_	_	_	
120m	,	Loaded	(~)	1	1	1	1	-	_	_	_	_	_	_	_	-
120m-	Liberty	Ballast	(b)													-
130m	Liberty		(6)	2	2	1	1	-	-	-	-	-	-	-	-	-
		Loaded		2	2	2	2	2	2	1	1	1	1	-	-	
130m-	Liberty	Ballast	(b)	2	2	2	2	2	2	2	2	2	2	1	1	
150m		Loaded		2	2	2	2	2	2	2	2	2	2	2	2	
>150m	Birdport	Ballast	(d)(f)	2	2	2	2	2	2	2	2	2	1	1	1	
		Loaded		2	2	2	2	2	2	2	2	2	2	2	1	-
155m-	Liberty	Ballast	(c)	2	2	2	2	2	2	2	2	2	2	2	2	
165m		Loaded		2	2	2	2	2	2	2	2	2	2	2	2	<u>-</u>
165m-	Liberty	Ballast	(a)	3		3	3	3	}	3	3	3	3	2		
175m		Loaded		3		_	3	3		3	3	3	}	2(P	ST)	-
a	Vessels of 1															
b	Vessels swi					orth limit of	berth face	!								
С	Vessels wit															
d	A sustained								and stress	ath of tide	any diatata	thouse of	n tug			
e f	When more Vessels of n								and streng	gui oi tide m	iay dictate	the use of a	tug.			



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Docking and Sailing of Vessels in Conditions of Restricted Visibility

This procedure details the factors that must be considered by Cardiff LPS officers, Pilots and PEC holders with regard to docking or sailing vessels at Newport (including the River Usk berths), Cardiff and Barry in conditions of restricted visibility.

Following a meeting with marine representatives from the ports, ABP's pilots and tug operators in December 2008 and February 2009 it was acknowledged that a defining distance at each South East Wales port was required to ensure that all involved in the movement of vessels within the harbour areas would be given the opportunity to consider a number of defined parameters before making a decision on whether to proceed with a docking or sailing. These distances, known as 'trigger distances' are defined in the paragraph below.

Trigger Distances:

- **Barry**: The lights on the eastern and western arms of the breakwater viewed from the Pilot Office.
- Cardiff: The Inner Wrach buoy viewed from the third floor of Queen Alexandra House.
- **Newport**: The Number 4 buoy viewed from the Pierhead Building, South Lock.
- **Swansea**: The end or inner east pier viewed from marine control
- Port Talbot: Dynamic assessment

Procedure

When it becomes apparent that the visibility in a specific port is below the trigger distance the docking or sailing of such vessel shall be suspended pending consultation with relevant parties.

It is the responsibility of the Duty MLC at Cardiff LPS to initiate consultation with the relevant parties in SEW as soon as it becomes apparent that adverse weather conditions are forecast or experienced. In SWW the procedure will be triggered by either tug masters, Pilots or based upon information from the relevant port duty lock control.

Those parties consulted should include, but not be limited to Pilots, PEC holders, Tug Skippers, Ships Masters, Harbour Master.

The aim of this process is to alert all parties to the relevant conditions enabling them to make an informed decision on whether or not to continue with the movement.

During the consultation each of the following elements must be considered:-

- Passage plan
- > Other vessel movements within the harbour or harbour approaches.
- > A vessel's ability to maintain a desired track or position.



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- > The ability to safely pass a heaving line and towing line from vessel to tug.
- > The characteristics of all of the tugs which will be involved in the operation
- > Tug assist methods that might be best used.
- > The ability of tugs to manoeuvre safely whilst connecting and disconnecting a tow line.
- ➤ The experience level of Master, Pilot or Tug Skipper.
- Available space on the berth with regard to the proximity of other vessels on adjacent berths.
- > The likelihood of the visibility improving in the short term.
- > Restrictions / limitations between Lock / Berth or Berth / Lock. E.g. other vessels, container cranes.
- Contingency plans including navigation aid failures and tug disengagement because the Tug Master considers the crew or the tug to be in danger.

Towage Operations in restricted visibility. Actions considered by the Tug Master.

If towage operations are to be undertaken in restricted visibility it is vital for the pilot/master to avoid any situation in which a tug may be overrun. It is understood therefore that the tug master will ensure that the following factors are discussed during the pilot/master exchange prior to an act of towage commencing:

- > Any limitations on the Tug's ability to assist
- > The maximum permissible speed at which any manoeuvre may have to be carried out
- The necessity to provide information well in advance to the Tug of all engine movements and alterations of course of the towed vessel
- > The necessity to inform the Tug immediately of any changes in the towed vessel's circumstances.
- ➤ If a Tug Master believes that his tug is being put at risk or he is not comfortable with the tug's position relative to the vessel.

All of the tugs involved in the operation must also maintain communications with each other throughout the operation.



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During the consultation each of the following elements must be discussed as a minimum and agreed:-

- > The method of tow
- Speed with good advance notice
- Contingency planning:- Pilots must be aware that if a bow tug is made fast when visibility falls to a distance where the Tug Master deems it unsafe to continue using this towing method, the Master will advise the Pilot that he will let go, if he can do so, and assist by 'Push / Pull' method on the shoulder. The minimum distance governing this action will be when the Master cannot see the line of the ship.

Communication

It is imperative that communication between the Pilots, Tugs and Lock Controllers is maintained and that contingency planning for restricted visibility is considered a vital part of the passage planning process.

5.0 PORT TALBOT TIDAL HARBOUR TOWAGE GUIDELINES

Minimum Tug Requirements

Harbour Inwards:

Up to 59,999 dwt: 3 tugs (1x"A")

Non Capesize and <244m LOA 1x"A"& 3x"B"

Capesize and > 244m LOA 2x "A" & 2x "B"

Vessels below 59999 dwt with an effective bowthruster: 2 tugs (1 X"A" &1x"B")

Harbour Outwards:

Up to 59,999 dwt: 1x "B"

Non Capesize and <244m LOA 2 x"B"

Vessels below 49999 dwt with an effective bowthruster No tugs required



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Shifting Berths:

Depending upon operational requirements, weather and time constraints a vessel shifting berth between North and South berths must engage a minimum of 3 tugs (A-B-A). At port Talbot Harbour, certain moves along the jetty that require ropes to be let go and moved may require the use of tugs in certain weather conditions that are defined in a standalone procedure.

Working bowthrusters

For the purpose of these guidelines a working bowthruster is defined as a <u>fully operational</u> bowthruster of at least 10% of the main engine power.

Towage in Adverse Weather conditions:

On the advice of the Pilot, one tug to be stationed at the Cabenda Buoy 45 minutes prior to the vessel's arrival at the channel entrance to assess sea conditions and liaise with the pilot

Minimum visibility will be dynamically assessed based upon the vessel and the manoeuvre.

Tug deployment

Inwards vessels: Tugs to be locked out of Swansea not later than 3 hours before High Water.

Rendezvous position: Tugs to meet vessels at the Cabenda Buoy

One Fwd and one Aft tug to make fast as soon as practicably possible after rendezvous at the Cabenda Buoy

Requirements for tugs

"A" Class = Twin ASD capable of sustaining a continuous bollard pull of 60 tonnes in the manner that it is employed e.g. Towing over the bow

"B "Class = Twin ASD capable of sustaining a continuous bollard pull of 40 tonnes in the Manner that it is employed e.g. pushing



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Tug Allocation table

Swansea

Length	Notes	No	Aids		g Bowthruster ote (b)			
		Docking	Sailing	Docking	Sailing			
<90m	(a)	Nil	Nil	Nil	Nil			
90m-100m	(a)	1+1	1+0	Nil	Nil			
100m-125m	(a)	1+2	2+1	Nil	Nil			
>125m	(a)	2+2	2+2	1+1	1+1			
(a)	Average	Average winds of 25kts or more will require a dynamic assessment of tug requirements.						
(b)	For the purp	For the purposes of these guidelines minimum bowthrust power is defined as at least 10% of main engine power						

Port Talbot Old Dock

All tug requirements will be advised on submission of completed notification via Agent On Line and are subject to Continual Dynamic Assessment.



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Port Talbot Harbour Towage Guide lines

Docking

Gross Tonnage	Bowthrust	A Class Tug	B Class Tug		
<59999 dwt	Yes	1	1		
<59999 dwt	No	1	2		
Non Capesize & <244m Loa	No	1	3		
Capesize & >244m Loa	No	2	2		

Sailing

Gross Tonnage	Bowthrust	A Class Tug	B Class Tug
<49999 dwt	Yes	0	0
<59999 dwt	No	0	1
Non Capesize & <244m Loa	No	0	2
Capesize & >244m Loa	No	1	1
Vessel shifting berth or berthed Port Side To		2	1

An effective bow thrust is defined as being at least 10% of the main engine power

'A' Class tugs have a bollard pull of 60t, 'B' Class tugs have a bollard pull of 40t



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Deployment

Deployment of tugs to be arranged in consultation with Pilot prior to boarding the vessel.

- Tugs to meet the inward vessel at the Outer Fairway Buoy.
- Stern Tug to make fast at Outer Fairway Buoy.
- Bow tug to make fast after the stern tug has made fast.
- Maximum speed for Azimuth Stern Drive (ASD) Bow to Bow picks up to be 5 knots.

Towage in adverse weather conditions

Inwards:

Wind Speed: 25 – 30 knots on the Marine Control anemometer – [Tug's anemometers to be used as reserve).

Factors affected by wind speed, direction and sea state to be discussed with pilot prior to carrying out tug job.

Minimum visibility not less than 6 cables – [Distance guidance: Swansea Inner Fairway Buoy to be clearly visible from the Marine Control building.]

Outwards:

Minimum visibility not less than 3 cables – [Distance guidance: End of Swansea East Pier to be clearly visible from the Marine Control building.]

7.0 Towage operations

This section seeks to offer guidance on towage operations based on nationally accepted standards for towage and local procedures specific to the ABP and Newport Harbour SHA areas of jurisdiction.

Before beginning towage operations a comprehensive plan of action should be prepared by the Master / Pilot taking into account all relevant factors including weather / tidal conditions, the berth operator's requirements and the size/ configuration of the vessel.

Pilots should be familiar with the tugs employed in the ABP South Wales and / or Newport Harbour SHA areas of jurisdiction



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7.1 Pilot / Vessel Master exchange

In addition to the standard information passed to the Pilot, it is recommended that the master provide the Pilot with a deck General Arrangement showing the layout and safe working load (SWL) of the mooring fittings, where known, and inform him:

- which fairleads, chocks, bollards and strong points can be used for towing;
- □the SWL of this equipment;
- □ areas of hull strengthened or suitable for pushing and relevant identification marks employed.
- using ships' mooring lines as towlines is not recommended (except in an emergency) as
 the strength may not be in accordance with tug towing force and may therefore limit the
 tug's performance;
- Any special features (i.e. controllable pitch propellers, thrusters etc).

7.2 The Pilot should advise the Master:

- the tug rendezvous times and positions;
- □the number of tugs and the mode of towage;
- the type of tugs to be used and their bollard pull(s);
- □if escorting, the maximum towline forces that the tug may generate at escort speeds;
- maximum planned speed for the passage;
- □the method by which the ship's crew should take on board and release the tug's tow line;
- □the prohibition on the use of weighted heaving lines;
- □that on release, the tug's gear should be lowered back always under control;
- □ areas of the transit posing particular risks with respect to the possible use of the tug;
- *intentions with regard to use and positioning of the tug(s) for berthing manoeuvres;
- | intentions with regard to use of the tug(s) in an emergency;
- primary and secondary VHF channels for use in the operation.

7.3 Pilot / Tug master Exchange

The Pilot and Tug master should, as a minimum, discuss the following issues:

- the SWL of the vessel's equipment used for towing;
- the tug hook up point, taking into account the prevailing weather and sea conditions, for escorting operation (if appropriate) and berthing;
- | if active escorting, the start point of the escorted passage;
- the maximum speed of the tug:
- passage details in their entirety while accompanied by the tug(s), particularly details of any swing manoeuvre, release position and sequence of release;
- □berthing details in their entirety, including tug positioning around the vessel's hull
- and the vessels required position on the berth;
- any unusual items regarding the particular vessel as gleaned from the Master/Pilot exchange;
- □any failure or reduction in the tug's ability to manoeuvre or deliver



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7.4 Communications

Effective Communications are an important part of safe towage operations in the South Wales and Newport Harbour SHA areas of jurisdiction.

Initial communications should be established between the tugs and the vessel contracting their services on the primary VHF Channel for the individual port.

Cardiff VHF 68
Newport / Usk VHF 71
Barry VHF11
Port Talbot VHF 12
Swansea VHF 14

Once communications have been established tugs and vessels should change to the appropriate tug working channel for the port after informing the Local port Services (pier head)

Secondary communications (tug working channels)

Cardiff VHF 13
Newport / Usk VHF 74
Barry VHF11
Port Talbot VHF 71
Swansea VHF 71

Communications between Pilots and Tug masters should be clear, concise and follow convention

Pilot (or Master) and tug master should establish naming convention for the tugs being employed (for example numbered from Fwd, or tugs names if distinct from other tugs being employed so as not to cause confusion.)

Pilot (or Master) and Tug Master should establish how the Pilot will ask for power to be applied, for example percentages of available power.

7.5 Allocation of tugs

When tugs have been allocated to a specific towage operation, it may be that the tugs would prefer to be in certain positions dictated by their turn rotation. While this may be acceptable to the Pilot and pose no additional operational concerns, it may also follow that the Pilot would prefer to utilise the Tugs in a different way so as to make best use of the available tugs. While the Pilot may try and accommodate the tugs turn rotation where possible, the Pilot (or Master) must be free to utilise the tugs as he best sees fit to do so



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