Port of Liverpool

Towage Guidelines
1 INTRODUCTION

These guidelines have been produced by The Mersey Docks and Harbour Company Limited “MDHC” (the Competent Harbour Authority for the Port of Liverpool), Liverpool Pilotage Services Ltd (the Pilot Service Company) and representatives of the Harbour Towage service providers. The Port Marine Safety Code requires towage guidelines to be developed on an objective assessment of safety and take into account the conditions prevailing in the port and the basic manoeuvring characteristics of various vessels using it.

Where risk assessment has indicated particular terminals with identified risks, these have separate plans and mandatory minimum levels of towage. The guidelines should be read in conjunction with the general towage information contained in the Port of Liverpool Navigation Guidelines.

It is important to recognize that the advice given within these guidelines is based on the following:-

- A “standard vessel” with an air start engine having a maximum number of eight consecutive starts, with a normal spade rudder, no thrusters and a normal dead slow speed of 6.5 knots.
- A minimum bollard pull of 30 tonnes for each tug. Please refer to the Towage Information for the Port of Liverpool.
- Vessels of the relevant length are operating up to the normal maximum permitted beam at each of the River Entrances.

As a result the Towage Matrix detailed below can be described under normal conditions as the lowest common denominator with respect to the Port of Liverpool’s towage requirements and is a baseline guide:
<table>
<thead>
<tr>
<th>Vessel LOA</th>
<th>Gladstone River Entrance</th>
<th>Langton River Entrance</th>
<th>Alfred River Entrance</th>
<th>12 Quays</th>
<th>CLCT</th>
<th>Tranmere Oil Terminal</th>
<th>Bromborough Wall</th>
<th>Cammell Lairds</th>
<th>Eastham Locks</th>
<th>QEII Lock</th>
<th>Garston</th>
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† Maximum size of vessel for Garston is 152m

It is however recognized that due to the considerable variations in vessel size, shape, condition and degree of maneuvering capability the recommended number of tugs from the matrix given may be in excess of what is the safe minimum number of tugs for a particular vessel. As a consequence the master of any visiting ship may order the recommended number of tugs as per the towage matrix contained within this document or opt to consult with an authorised Liverpool Pilot where both marine professionals may agree to deviate from the Tug Matrix contained within this document by use of their own professional judgment to set a safe and appropriate level of tug provision for a particular vessel. Likewise that tug provision may exceed the guidelines in exceptional circumstances, or when directed by the Harbour Master under his statutory powers.

Such consultation can be arranged by the master of any vessel through his agent who will then contact the vessels allocated or appropriated pilot to give due consideration to the masters request. In assessing any variation from the Towage Matrix the following points will be taken into consideration namely:-

- The draught of the vessel.
- The minimum under keel clearance during the planned passage of the River Mersey and enclosed dock system.
- Range of the Tide on the date in question – Spring or Neap.
- Expected sea and swell conditions off the lock entrance or berth.
- Whether the berthing operation is going to take place on the flood or ebb of the tide.
- The forecast weather conditions, including visibility.
- Maneuvering aids – Thrusters, size and number.
- Type of propulsion system – Controllable Pitch, Fixed Pitch, Water jet or Azipod.
- Type of Steering system – Single, twin or triple rudders, and whether high-lift or not.
- The windage area of the vessel.
- The Gross registered Tonnage in relation to the vessels principal dimensions.
- Unusual design of vessel.
- Any reported defects to the vessel required under the Port of Liverpool’s General Directions (No 4 – 2000)
- Type of main Engine – Air start, Gas Turbine, Diesel Electric, Gearbox.
- Any Lock restrictions in force.
- Availability of Gig Boats and Boatmen.

2 INFORMATION REGARDING TOWAGE

2.1 General

2.1.1 Registered Tugs

As the Statutory Harbour Authority for the Port of Liverpool, MDHC must be satisfied that tugs operating within Port Limits are able to undertake towage operations safely. Tugs must also be crewed by certificated professionals with appropriate experience and skills to operate the tug correctly.

2.1.2 Sea Tugs

A sea going tug is a tug which is not permanently based within the Port of Liverpool and which is not registered with MDHC; for example, a tug towing a barge from an external port. When a sea going tug enters the Port of Liverpool, it must meet the same requirements as any other vessel. In general, sea tugs are larger and less manoeuvrable than harbour tugs and are less suited to berthing operations.

2.1.3 Port of Liverpool Registered Tugs Regulations

A registered tug is a vessel that has been granted consent by MDHC to provide a towage service. The tug must be registered with MDHC and a declaration of compliance with the Port Marine Safety Code sighted by the Harbour Master. A competent person/organisation appointed by the MDHC shall have the right to inspect any registered tug to ensure that it is fit for its intended purpose.
2.1.4 Towage and Pilotage Exemption Certificate Holders/Masters in Charge

Under all routine operations Pilot Exemption Certificate ("PEC") holders are permitted only to make tugs fast with a towline if in possession of a valid tug/towage endorsement. PEC holders without a tug/towage endorsement are not permitted to make tugs fast with a towline or move their vessel when in a non-self propelled state using tugs. PEC Holders without tug/towage endorsement are permitted to employ tugs in a push mode only. Applicants are to provide written evidence to the Harbour Authority that they have conducted a familiarity trip on a Liverpool harbour tug with a minimum of one actual / simulated push mode operation with a vessel substantially the same class as that of the vessel to which the certificate will relate. Should a PEC Holder without a tug/towage endorsement require a tug to make fast with a towline, they should contact Mersey VTS Pilotage and employ the services of a Liverpool Pilot.

Masters in Charge are required to take a pilot if intending to employ the services of a tug, unless they have a PEC with a Towage Endorsement or are less than 82m in length.

Under exceptional circumstances where the safety of People, Environment and Assets are at risk, then a Master with or without a Tug Endorsement must take all necessary action including, if he sees fit, connection to a tug.

2.2 Automatic Identification Signal and Charts

Registered tugs (including work boats) are required to have an Automatic Identification (AIS) unit fitted in order to aid Mersey VTS/Dockmasters and other vessels maintain situational awareness of applicable movements. All vessels navigating anywhere within the Port of Liverpool must have on board a folio of updated navigational publications, including charts required for the transit.

2.3 Tug Crews

2.3.1 Qualifications

National certification of tug crew is set by the Maritime and Coastguard Agency in accordance with the Port Marine Safety Code. All crew must meet these requirements and tugs must be safely and adequately manned. In addition, all Masters of tugs registered by MDHC are required to hold a Certificate of Competency (CoC) to STCW standards or Boatmaster License (or equivalent) with the appropriate towage endorsement. This applies to General Towage (towing and pushing); however, MDHC requires that all tugs engaged in ship assist towage must be operated by STCW certificated masters.

2.3.2 Experience

Operators of registered tugs shall ensure that their crews are trained with a sound understanding of the tugs which they operate, relevant towage techniques and the area in which they operate.
2.3.3 Working Hours

All tug crew members must be properly rested in line with the recommendations of national and international legislation. Please see HSE Working Time Directive.

2.4 Personal Protective Equipment

Personnel on exposed decks are to wear at all times appropriate personal protective equipment (“PPE”), including hazardous duty (working) lifejackets, in line with the tug operator’s current risk assessment. It is the Tug Master’s responsibility to enforce the wearing and use of PPE. All PPE must be approved and in date. The decision to put crew on the working deck to handle the towline and messenger shall rest solely with the Tug Master. The criterion for this task shall be whether the crew can safely carry out the required task.

Crew members are recommended to only proceed on deck during towage operations with the following equipment:

- Boiler suit or suitable alternative;
- High visibility clothing;
- Lifejacket;
- Safety shoes or boots;
- Safety helmet fitted with chinstrap or approved safety head wear;
- Gloves.

2.5 Communication

Throughout towage operations good VHF communications between all parties are a vital component of safe towage operations. At all times tug crew, vessel crew and shore-side staff must be able to communicate efficiently and clearly. When communication has been established, normal procedure is to change to a dedicated working channel to avoid saturation on Mersey VTS and River Entrance working channels. All communication should be short and precise to avoid confusion and must include the name of the vessel/tug called.

VHF communications between a vessel and assisting tugs must be undertaken using the appropriate power setting on the VHF transceiver.

If hand/sound signals are to be used they must comply with industry standards.

2.5.1 Master in Charge

In addition to the usual Master/Pilot information exchange, it is recommended that the Master of a vessel requiring tug assistance provides the Pilot with details of:

- The position and layout of fairleads, bollards and strong points etc. which can be used for towing;
- The safe working load ("SWL") of such fairleads, bollards or strong points;
- Areas of the vessel’s hull specially strengthened for tugs pushing (or those areas where tugs must not push) and their identification marks; and
- Any other aspect of the vessel’s design or operation which could affect the assisting tugs. Tugs normally told where to make fast will be pushing tug.

2.5.2 Pilot

The Pilot shall advise the vessel’s Master of:

- The tug rendezvous time and position;
- The number of tugs required and their mode of operation;
- The planned (optimum) vessel speed through the water when connecting a tug’s towline;
- Under normal circumstances and in line with Port practice the vessel will always use the Tugs line. In exceptional circumstances a vessel’s line maybe used provided the tug master is in agreement;
- The type of tugs to be used and their respective bollard pull;
- 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 vessel’s crew must take on board and release a tug’s towline;
- That on release, a tug’s towline shall be lowered back to the tug always under control;
- Areas of the transit posing particular risks with respect to the possible use of tugs;
- Intentions with regard to use and positioning of tugs for berthing manoeuvres;
- Intentions with regard to use of tugs in an emergency (escort operations);
- Primary and secondary VHF channels for use in the operation; and
- Safe abort locations (if applicable).

2.5.3 Pilot/PEC Holder and Tug Master

The Pilot/PEC Holder (with towage endorsement) and Tug Master shall, as a minimum, discuss the following issues:

- Methods of communication;
- Clear understanding of responsibilities.
- The SWL of the vessel’s bollards, fairleads, strong points etc. to be used for towing (failure to provide this information could result in damage to the vessel or tug);
- The tug hook up point, taking into account the prevailing weather and sea conditions, or escorting operation (if appropriate) and berthing;
- The planned (optimum) vessel speed through the water when connecting to the tug’s towline;
- If active escorting, the start point of the escorted passage;
- The maximum speed of the tug;
- Passage details while accompanied by tugs, particularly details of any swinging manoeuvre, release position and sequence of release;
- Berthing details in their entirety, including tug positioning around the vessel’s hull and the vessel’s required position on the berth;
- Any significant weather forecast/anticipated;
- Intended and emergency use of vessel’s anchors; Tug Master and Pilot don’t normally discuss anchorage. This is implied by local knowledge.
- Any unusual items regarding the particular vessel as gleaned from the Master/Pilot exchange;
- If appropriate, any shallow water or bank effect areas where significant surges may be experienced that may add to the tug’s towline loads;
- The Tug Master shall advise the Pilot immediately if there is any reduction in the tug’s operational characteristics, such as ability to manoeuvre, deliver bollard pull or any other operational defect which could affect the tug’s capabilities; and
- When confirming that the tug is fast and ready to assist, the Tug Master shall also confirm both the tug’s name and position on the vessel.

2.5.4 Raising of Concerns during Towage Operations

The Tug Master must immediately inform the Pilot/Master of any concerns as to the safety of the tug and its crew. The Pilot/Master and Tug Master shall take immediate action to ensure the safety of both the tug and assisted vessel; if necessary they must abort the operation as soon as it is safe to do so.

2.6 Tug Watertight/Weathertight Openings

It is essential that whilst engaged in towage operations that a watertight seal is maintained on main deck and towing deck openings to avoid water entering the tug’s hull and superstructure. This applies to all watertight doors, hatch openings and emergency escapes. Openings that are required to be closed must be marked accordingly with an appropriate sign. Rubber seals and locking dogs are to be kept in good working condition at all times and be fitted properly. Always operate all closing devices and dogs fitted; it is not sufficient to lock two dogs on a watertight door fitted with six. If entry is required through a hatch or door during towage operations, the Tug Master must be informed and the hatch or door closed immediately after use. Watertight doors are not to be left open, even if access is required for a short period of time.
2.7 Towing Equipment

2.7.1 Inspection and Maintenance

All towing equipment shall be tested on a regular basis and replaced when unsatisfactory. All towing equipment in use must be checked before undertaking a towage operation and after completion of each towage operation. Inspection of towing equipment shall include all ropes, wires, shackles, messengers, winches, hooks and any other item specifically designed or used to provide towage services. In date test certificates shall be held on board for all relevant equipment in use. Damaged or suspect items of equipment are to be withdrawn immediately from service. If any item of equipment is damaged during towage operations, the Master/Pilot of the vessel must be informed.

2.7.2 Tow Quick Release

The emergency release mechanisms on winches and towing hooks are to be tested both locally and where fitted remotely. Towing winch and towing hook release mechanisms are to be tested frequently for correct operation. All methods of "tripping" or "run out" are to be tested (pneumatic, manual pull, lever or knock out etc.). Release mechanisms are also to be tested at other times, if a fault is suspected or an exceptional shock loading has been experienced. Records of testing of the emergency release mechanisms shall be kept and made available to the Harbour Authority on request. Under no circumstance is towing equipment be connected to any winch or hook that has a suspect release mechanism. Correct maintenance and operation are essential. It could save lives.

2.7.3 Vessel Mooring Lines as Towlines

Using a vessel's mooring lines as towlines is not recommended (unless agreed between Master/Pilot and Tug Master), as the safe working load may not be compatible with the assisting tug’s performance. Use of a vessel’s mooring lines as towlines may limit a tug’s ability to assist.

Under normal circumstances and in line with Port practice the vessel will always use the Tugs line. In exceptional circumstances a vessels line maybe used provided the tug master is in agreement.

2.8 Towing Hazards

2.8.1 Speed When Making Fast and Letting Go

The vessel’s speed through the water must be reduced to that which allows a safe rendezvous and connection/disconnection of the tug. The required speed shall be agreed in advance between the Master/Pilot and with the Tug Master. The recommended maximum safe speed through the water for a centre-lead forward tug is six knots. At all times during the connecting/disconnecting process, the Pilot/Master must be aware of the position and intention of all relevant shipping movements in the area. The Pilot/Master has a responsibility to keep Mersey VTS / Dockmasters appraised of their intentions at all times, requesting advice on shipping as necessary.
2.8.2 Intentions When Towing

The Pilot/Master must always advise the Tug Master of their intentions, allowing the Tug Master to anticipate the effect of the manoeuvre on the tug. Whenever possible the Pilot/Master shall advise the Tug Master before making any engine movements. Un-notified, sudden or large speed increases or course alterations should be avoided. The positioning of a tug on a vessel is a matter for discussion between the Pilot/Master and the Tug Master, having full regard for the areas of the hull which must be avoided; e.g. watertight doors, between frames etc. In strong tidal conditions, a high percentage of a tug’s power may be absorbed in maintaining position on the vessel before applying thrust to the vessel.

2.8.3 Interaction

Interaction and its effects on a tug and its handling are well known and appreciated in port/harbour towage. Masters and crew are reminded that these effects increase with speed in areas where interaction exists. When manoeuvring alongside a tow, the Tug Master should be aware of the possibility of underwater obstructions such as bulbous bows, stabiliser fins etc. The Tug Master should be aware of the actions of side thrusters which may present a hazard to the tug.

2.8.4 Girting

Vessel’s Masters, Pilots and Tug Masters must have a clear understanding of girting and its consequences. Girting happens when the towline comes at right-angles to the tug. The tug is pulled bodily through the water by its tow, which can lead to deck-edge immersion, flooding and capsize; unless the towline is released in good time.

2.9 Towing in Restricted Visibility

When visibility is reduced the hazards associated with towage operations are increased.

These procedures apply to all towage operations in the Port of Liverpool being conducted in restricted visibility.

Restricted visibility is all circumstances where visibility is, or is expected to, reduce to a distance where a tug’s normal ability to perform may be impaired. Such restrictions in visibility, as defined in COLREGS, could be due to fog, mist, snow, rain, sleet or any other conditions which impair visibility.

COLREGS Rule 19 states every vessel should proceed at a safe speed adapted to prevailing circumstances and restricted visibility. A vessel detecting by radar another vessel should determine if there is risk of collision and if so take avoiding action. A vessel hearing fog signal of another vessel should reduce speed to a minimum.

In circumstances where restricted visibility exists, or is likely to exist, the Master/Pilot and Tug Master shall, as part of the passage plan and risk assessment process, agree how the operation will be conducted, what dangers are associated with towing in restricted visibility and what risk
reduction measures shall be applied. When completing this assessment the following must be considered:

- Type of tug, propulsion method, towing from winch or hook and location of winch/hook.
- Proposed method of towing.
- Operational status of navigational aids and equipment.
- Minimum speed to maintain steerage of vessel to be assisted.
- Movement of other vessels in the area.
- Navigational characteristics of the particular area of the Port including the use of information from Vessel Traffic Services (VTS).
- Contingency plan should visibility deteriorate after the tow has commenced and/or if the tug has to disengage at any stage of the operation.
- Minimum visibility for all planned towage operations is 370m (two cables) or the assisted vessels length if greater, and such that the Master/Pilot can see the tug and the Tug Master can see the towed vessel.

Should visibility fall below the aforementioned minimum once a towage operation has commenced, and the Pilot/Master can no longer see the bow tug, the vessel’s speed shall be reduced to a minimum safe speed and if safe and appropriate to do so take all way off the vessel. Following discussion with the Tug Master the contingency plan discussed and agreed at the planning stage must be implemented. This could include one or more of the following:

- Let go the forward tug (or any other assisting tugs) and anchor the vessel.
- Use the tugs to turn the vessel, let go the tugs and the vessel proceeds either to an anchorage or outside the Port Limits.
- Let go the forward tug (or any other assisting tugs) and have the tug assist in a pushing mode.
- Allow the tug to manoeuvre the vessel under the Pilot/Master’s instructions. This may include using the tug to maintain the vessel’s position at a safe location in the Port.
- If safe to do so, a tug secured aft may remain attached for escort. If considered unsafe by any party the aft tug must be let go and remain in attendance for passive escort.

If the above options are not safe or practicable then, as a last resort and with the agreement of all parties that it is the safest course of action, the operation can continue to completion.

The agreed course of action must be fully communicated to Mersey VTS/Dockmasters.

All towage operations in restricted visibility must be conducted with the assisted vessel maintaining minimum speed. An approximate maximum speed of 6 knots through the water should be considered. If a vessel’s minimum speed would result in a speed through the water greater than 6 knots, then this will be a major factor to consider in the planning stage of the operation.
The Tug Master shall inform the Pilot/Master immediately of any concerns that he may have as to the safety of the tug and its crew. The Pilot/Master and Tug Master will take immediate action to ensure the safety of both the tug and the assisted vessel; if necessary they shall abort the operation as soon as it is safe to do so.

A Tug Master proceeding to a job and all parties involved in the operation, must report any lack of visibility, immediately it is observed, to Mersey VTS/Dockmasters and the vessel with which the tug is to rendezvous.

If restricted visibility is encountered, and with agreement between the Pilot/Master and the Tug Masters, there are two possible options for the vessel and tugs to undertake:

(a) Disconnect the head tug from the tow and utilise the stern tug in conjunction with the vessel’s engines to provide steerageway. This is the preferred option for all tugs and the only option if the head tug is a conventional tug.

(b) Take all way off the vessel and allow the tugs to tow the vessel as a dead ship (under the direction of the Pilot/Master), with the head tug on a shorter tow line. This can only be considered when using an omni-directional tug (e.g., Voith tractor or ASD tug towing as a tractor) as head tug and is not considered a suitable or safe option for a conventional head tug or an ASD tug towing in a conventional manner.

The Master and Pilot shall consult and can make an informed decision as situation unfolds.

**2.10 Towing in Adverse Weather Conditions**

When towing in adverse weather, hazards associated with towage operations are increased.

In circumstances where heavy weather (e.g., high winds and/or heavy swell) exists, or is likely to exist, the Master/Pilot and Tug Master shall as part of the passage plan and risk assessment process agree how the operation will be conducted, what hazards are associated with the towage operation and what risk reduction measures are to be applied. When completing this assessment, the following must be considered:

- Sea and/or swell conditions at the intended operating area and the route to/from same.
- Wind speed, direction and trend; e.g., rising, steady or falling.
- State of tide and trend.
- Information offered by latest weather forecast and other vessels in the area.
- Type of tug, propulsion method, towing from winch or hook and location of winch/hook.
- Proposed method of towing, including likelihood of shock-load to towing gear.
- Movement of other vessels in the area.
- Navigational characteristics of the particular area of the river including the use of information from Vessel Traffic Services (VTS).
A contingency plan should weather deteriorate before/after the tow has commenced and/or if the tug has to disengage at any stage of the operation must be formulated. This could include after careful consideration, but not only be limited to, one or more of the following:

- Tug does not make fast and remains on station to assist the vessel to a position of safety.
- Tug is let go and remains on station to assist the vessel to a position of safety.
- Tug is let go to assist in a pushing mode.

If there is likelihood that the weather conditions may pose a significant threat to the tug, its crew or towing equipment, the Tug Master shall immediately inform the Pilot/Master of any concerns that he may have. The Pilot/Master and Tug Master shall take immediate action to ensure the safety of the tug and the assisted vessel (and their respect crews) and, if necessary, the operation shall be aborted as soon as it is safe to do so.

The agreed course of action must be fully communicated to Mersey VTS/Dockmasters.

When the tug is proceeding to a job in poor weather conditions, the Tug Master is to make a pro-active report to discuss the weather conditions with Mersey VTS/Dockmasters and the vessel with which the tug is to rendezvous.

### 3 TOWING VESSELS

#### 3.1 Bollard Pull

The bollard pull of a tug is the amount of static force (pull) that can be exerted on a stationary object. The towing force that the tug can apply to an assisted vessel depends upon the type of propulsion unit and the method of assistance.

Tugs designed for escort operations can exert (when using dynamic towing techniques) a towing force somewhat higher than the tug’s bollard pull. This fact must be considered by Pilots/Masters when considering use of escort tugs.

The Port of Liverpool has guidelines regarding the towage requirement for Tranmere Oil Terminal and City of Liverpool Cruise Terminal.

http://peelports.com/ports/liverpool/port-information

#### 3.2 Safe Working Load of Vessel Mooring Equipment

The Pilot/Master should establish the SWL of the vessel’s mooring equipment intended to be used for towage operation as part of the Pilot/ Master exchange. This information should be compared with the bollard pull (or dynamic escort force) of the allocated tug. Use of equipment with lower SWL should be avoided. If this is not possible, then the Tug Master must be advised of the SWL
and not to exceed this limit. Panama fairleads are preferred to other types of fairleads for towing operations.

### 3.3 Receiving /Letting go of Towlines

#### 3.3.1 Connecting

Before reaching the tug connection point, communication shall be established between the Pilot/Master and Tug Master via VHF. Before the tug approaches the connecting position, the vessel’s bridge team shall contact the vessel’s mooring crew and confirm that they are ready to receive the tug. In most cases the vessel’s speed through the water must be reduced. A suitable speed must be agreed between the Pilot/Master and the Tug Master; a maximum of 6 knots through the water is recommended for connecting a tug to the centre lead forward. During the connection, the Pilot/Master must advise the Tug Master of any alteration in speed or course. The vessel’s mooring crew must be briefed on the procedure for making the tug fast. When the tug has been connected, the tug crew must be instructed by the Tug Master to vacate the deck. If this is not practical, they must be positioned in as safe a position as possible. Having made fast to the tow is an opportunity for the tug’s crew to check that watertight integrity has not been breached.

#### 3.3.2 Disconnecting

During the disconnection of the tug, both tug and vessel crews should be made aware of the danger of serious injury if the towlines are released in an uncontrolled manner. The towline must always be lowered in a controlled manner onto the tug’s deck, and not just ‘cast-off’, unless otherwise requested by the Tug Master.

### 3.4 Specialist Towing Gear

Any specialist towing gear, for example bridles are to be requested at the time of booking.

### 3.5 Standard Risk Assessment (Ship Towage)

All towage companies operating in the Port of Liverpool shall have in place current risk assessments for all standard towing operations and any unusual or specific operation will require at least a dynamic risk assessment.

### 4 TOWING BARGES OR DEAD SHIPS

A dead ship is defined as a vessel in a condition under which the main propulsion plant, boilers and auxiliaries are not in operation due to the absence of power. Towing barges and dead ships by their nature requires careful consideration. There is a standardised method statement, in the form of a Dead Tow Application (See Port of Liverpool Website – Towage Information), which captures all relevant information for the Pilot, Tug Masters and Mersey VTS/Dockmasters. Sea-going tugs normally hand over/take-over to/from Harbour registered tugs inside the Port Limits.
When proceeding to/from estuarial berths, in addition to the required number of licensed tugs, the sea tug may remain fast at the Pilot’s discretion. In such situations Mersey VTS/Dockmasters must be advised accordingly.

4.1 Barge/Dead Ship to Have a Tow Master

A recommendation made by the MAIB following the Chieftain Report states: “planning should take into account the need for a contractor’s method statement setting out the various contracted stages and responsibilities, a full passage plan, relevant experience and the need for a person to be in charge”. Unless otherwise agreed with the port authority, a barge/dead ship operation is to have a Tow Master (responsible person) to be in charge on board the barge/dead ship; this must not be the pilot. The Tow Master shall be suitably competent and experienced in barge operations, and will have overall responsibility for the safety of the towage operation; the Pilot will have the conduct of the passage. The Tow Master must also be satisfied that all appropriate risk assessments are in place. The Tow Master will board the barge on arrival/departure (in the absence of an embarked individual) and will act as Tow Master who will remain responsible for the safety of the barge at all times. Whilst alongside a responsible organisation is to be nominated and Harbour Authority notified accordingly. See The Port of Liverpool Dead Tow Application. The Tow Master must ensure that he is in possession of the contact details (Phone and VHF) of the rigging crew and shore side line handlers.

4.2 Dead Tow Application

The dead tow method statement must be submitted by the responsible person/organisation to the Port of Liverpool Berthing Manager for approval. All dead tows are subject to a consultation with a Liverpool Pilot at a minimum of 48 hours’ notice prior to the commencement of the tow. The Dead Tow Application is to be distributed to the Pilots, Mersey VTS and registered harbour tugs prior to the operation commencing.

See Port of Liverpool Website – Dead Tow Application.

http://peelports.com/ports/liverpool/port-information

5 APPENDICIES

Port Marine Safety Code & Guide to Good Practice
General Directions for the Port of Liverpool
Port of Liverpool Pilotage Directions
Port of Liverpool Navigation Guidelines
Port of Liverpool Towage Information
International Regulations for the Prevention of Collisions 1972
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