



Forth Ports Limited

Port of Dundee

Rig Move Guidelines

FORTH PORTS LIMITED	Document ID FPS PMSC OP 24/04	Authorised By MMD	Original Date March 2014
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1 Introduction

Rig moves are carried out in the Port of Dundee where the pilots and management team have a high level of experience in such manoeuvres. Both jack-up and semi-sub rigs can be berthed alongside and there are a number of berthing options for jack-ups, but in general semi-sub are only berthed at Prince Charles Wharf. These guidelines are intended to allow all parties involved to successfully plan and execute these complex manoeuvres.

These guidelines should be read in conjunction with the Port of Dundee Marine Guidelines and Port Information https://www.forthports.co.uk/wp-content/uploads/2019/04/FP-PMSC-OP-15_10-Marine-Guidelines-and-Port-Information-Tay-1.pdf

2 Pre-Arrival

2.1 Planning Meetings

The following is required to be discussed, agreed and confirmed during Pre-Arrival Meetings. It is recommended that these meetings be arranged with the Marine Manager / Harbour Master to clarify all issues.

- Procedures for Prioritising Rig Movements and the requirement to advise all parties/operators of prospective movements within the Tay.
- Guidelines on the extent of the scope and extent of the tow for each towing vessel (e.g. secure port quarter and remain connected until the Fairway Buoy)
- Disposition of towing vessels and towing configuration (e.g. – over bow/ over stern) and any proposed changes in configuration.
- Planned pilot disembarkation position and impact on towing vessels – e.g. towing vessel required to pull clear to allow access for pilot cutter
- Towing vessel masters will confirm their understanding of the Pilots' instructions.
- Other planned movements in the river.

A pre-departure meeting will be held with the Harbour Master, Marine Manager, Pilot(s), Tow Master(s), Rig Manager, Agents, towing vessel Masters (where available) and any other parties as required per operation. This meeting shall serve as a briefing prior to the planned operation.

It is the responsibility of the Rig Manager to ensure that all parties attend the planning meeting.

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2.2 Priority of Movements

An outbound Rig, going out to location will, in general, have priority over an inbound Rig, subject to safety issues.

However this may depend on the following factors:

- Will the rig be able to complete its planned move?
- Are towing vessels in place?
- Has the rig declared that it is ready to move?

The Marine Manager / Harbour Master will issue a Large Vessel Movement message prior to arrival/departure. Restrictions to estuary movements will be put in place when arrival/departure confirmed.

An indicative booking should be received as soon as possible, but no later than one week before arrival. At this stage, all parties will be advised regarding weather conditions, prospective large vessel movements, which require high water and/or daylight operation and where there may be an issue of multiple bookings.

Where possible, all attendant vessels should arrive in port on the previous high tide at the latest. A pilot may be required for some lead tug movements, subject to LOA. Note – movement within the port area is permitted for attendant vessels less than 40 metres in length without a pilot on board, however clearance is required from Dundee Harbour Radio prior to any movement.

Vessels requiring boatmen are requested to give at least 24 hours notice. Towing vessels shall request from Dundee Harbour Radio clearance to move subject to draft, depth of water on the tide gauge prior to departing a berth or anchorage to proceed to a rig to commence connecting up towlines.

2.3 Confirmation/Cancellations

Arrivals/departures must be confirmed/cancelled at least 6 hours before high water on Day of intended movement, unless weather conditions deteriorate significantly.

2.4 Weather Parameters

Rig Move Weather Parameters:

- A maximum sustained wind speed of 15 knots, with a maximum gust of 20 knots.
- Wind speed to be measured using 25 metres as a datum. This height corresponds to the level of the Tay Road Bridge anemometer.
- Daylight hours for passage between Lady Buoys and the Newcome Buoy,
- Visibility minimum 2 nautical miles.
- Maximum swell at the bar less than 0.5m

Conditions will be assessed and if necessary checks carried out to confirm that parameters are acceptable for movements.

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3 Pilotage

3.1 Inbound

One Pilot will board the lead towing vessel and one pilot will board the rig 4 hours before high water, Dundee. The rig should commence the transit to Dundee no later than 3¹/₂ hours before high water, Dundee.

Speed of tow during transit will be dependent on towing vessels and prevailing conditions.

All towing vessels are made fast prior to passing the fairway buoy.

3.2 Outbound

On departure the duty pilot will board the lead towing vessel and the 2nd Pilot will board the rig, 3 hours before high water Dundee. In normal circumstances all other towing vessels are made fast prior to departure and the rig should leave the berth no later than 2¹/₂ hours before high water, Dundee. Depending on the rigs configuration alongside, the departure may have to be carried out in a two stage operation and this will be explained at the pre-departure meeting.

The absolute cut off point for departure will be at 2 hours before HW if the rig is not underway.

3.3 Pilot /Tug communications

Tug operations VHF Channel 14 or other agreed channel.

Dundee Harbour Radio operates on VHF Channel 12.

3.4 Boarding and Landing of Pilots

Pilot embarkation or disembarkation to the rig will be via an approved means of access as per pilot boarding regulations, in a position that is flat, free from obstructions and suitable for a pilot vessel to come alongside. The guidance in the UKMPG Boarding and Landing Code will be followed at all times.

3.5 Contingencies

In the event of an emergency situation arising i.e. loss of tug power, the rig will be towed to the anchorages at either Buddon Anchorage or Craig Anchorage, if this is not possible the rig is to be stabilised in a safe location clear of underwater obstructions and “jack up”. A location at Buddon has been successfully used – 56° 27.4N 002° 44.5W.

3.6 Two Tide Operation

There are differing classes of jack-up rigs which may not tow as well due to their size and the wind effect. It should be noted that these rigs may not be able to sustain a sufficient speed over the ground that would allow them to complete the move in a single tide. In these cases the rig can pin at the position indicated in 3.5 and complete the move on the next suitable tide.

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4 Towage

Tugs draft are to be less than 6.5m.

All towing vessels must be sufficiently manoeuvrable to be capable of working cross-tide in the River. All tugs must be available for briefing and audit at least 12 hours before the Rig Move, if this is not practicable a Remote Towage Audit (see Appendix B) must be completed and submitted no less the 36 hours prior to the Rig Move. For rigs arriving in Dundee, tugs which are already part of the sea tow will be briefed by the tow master in consultation with the pilots.

4.1 Harbour Tugs

The tug configuration will depend on location and berth and whether port side/starboard side and stern to and any other vessels / rigs in close proximity. For close manoeuvring on and off the berth, 4 harbour tugs of more than 70 tonne bollard pull each are required, although tugs may be 60 tonne bollard pull in certain conditions following discussions with the Marine Manager / Harbour Master and Pilots. The final towage configuration will be dependent on berth, and the size and type of rig and whether it is permitted to walk the legs for a berthing or positioning manoeuvre. It is recommended that for arrival, the harbour tugs should be able to tow over the bow. For departure a mix of over the bow and over the stern can be used. All harbour tugs should be highly manoeuvrable and preferably ASD (Azimuth Stern Drive) or other tractor type tugs should be used.

All towing vessels engaged in rig move operations must complete the Towage Audit Declaration before undertaking towage operations in the Port of Dundee. ([Refer to Appendix B](#))

- 4.1.1 The harbour tug contractor or rig mover must confirm that the tug masters employed have suitable qualifications and experience in towage operations.
- 4.1.2 The tow master should sign off on the remote towage audit in Appendix B

4.2 Lead Tug

The lead tow vessel will be an anchor handling type vessel capable of around 150 tonne bollard pull. These will also be limited to a 6.5m maximum draft and vessels with drop down azimuth thrusters are not suitable unless they can demonstrate that they are capable of working across the tides without using the azimuth thruster. Lead tow vessels should not operate in DP mode when the towline is attached to the rig

All towing vessels must be in possession of a corrected up to date edition of Admiralty Chart Number 1481-River Tay.

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If berths are required for the towing vessels, this should be advised to the Marine Manager / Harbour Master at the earliest opportunity and Proposed Vessel Movement Forms completed and submitted to the Harbourmaster and Duty Harbour Master at Forth and Tay Navigation Service (FTNS) (ftns@forthports.co.uk).

Vessels requiring boatmen are requested to give at least 24 hours notice. Towing vessels shall request clearance from Dundee Harbour Radio to move subject to draft, depth of water on the tide gauge prior to departing a berth or anchorage to proceed to a rig to commence connecting up towlines.

5 In Port

5.1 Leg Lift Procedure

The leg lift procedure and sequence is to be addressed between towing master, rig manager and pilots.

A test pull of the legs will be carried out 24 hours prior to departure. This to be confirmed to the port. If for operational purposes it is not practical to carry out this procedure, then this must be discussed with the Marine Manager / Harbour Master and the duty pilot prior to the operation.

Shore connections also to be removed.

The maximum draft of the rig is 6.5m, which must be confirmed by the rig managers. Variations in draught will be assessed, as this will affect movement timings.

5.2 Notification & Notice to Mariners

The Marine Manager / Harbour Master will ensure that Dundee Airport air traffic control is notified prior to the arrival or departure of any jackup rig.

5.3 Aircraft Warning Lights

It should be noted that the Port of Dundee lies within a statutory air corridor and any obstructions over 100m above sea level (MHWS) are required to display high intensity all round red lights during the hours of darkness. The legal requirement for displaying Obstruction lights is contained in the Air Navigation Order CAP393, Part 28 Lights and Lighting. Number 219 lighting of en-route obstacles.

“The person in charge of an en-route obstacle must ensure that it is fitted with Medium Intensity Steady Red Lights positioned as close as possible to the top of the obstacle and at intermediate levels spaced so far as practicable equally between the top lights and ground level with an interval of not more than 52 metres.

The person in charge of an en-route obstacle must, ensure that by night the lights required to be fitted by this article are displayed.

At each level on the obstacle where lights are required to be fitted, sufficient lights must be fitted and arranged so as to show when displayed in all directions.”

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A Medium Intensity Steady Red Light is an ICAO medium intensity Type C light of at least 1500 candela. This is commonly a light fitting of 116Watt (incandescent) or 20Watt (LED).

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APPENDIX A

Procedure for Auditing and Licensing Towing Vessels Engaged in Rig Move Operations

On receipt of a confirmed arrival of a Rig, the Rig Move Arrivals and Departures Guidelines will be forwarded to the Rig Operator and the Rig Moving Contractor.

A Pre-Arrival/Departure Meeting will be arranged to occur approximately one week in advance of arrival/departure. During this meeting towage requirements will be confirmed together with guideline requirements on weather parameters; indicative tides and timings and towage configurations and limitations.

The Rig Move Contractor will be issued with the Audit Declaration and be required to submit such declaration for each nominated towing vessel.

Nominated tugs will be advised at the earliest opportunity and the condition, suitability of the tugs, and the competence of the crew are to be advised to the Port of Dundee. This shall be done using the Towage Declaration below.

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APPENDIX B

Towage Audit Declaration

Please complete the below form and attach all requested documentation.
Forth Ports reserve the right to carry out an on-board audit should it be deemed necessary.

ARRIVAL	<input type="checkbox"/>	DEPARTURE	<input type="checkbox"/>
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Company/Tug Details	
Coordinating Company Name	Click here to enter text.
Nominated Tug(s)	Click here to enter text.
Towage Company	
Company Number	Click here to enter text.
Registered Office	Click here to enter text.
Tug Name	Click here to enter text.
Tug UN Number	
Length Overall	Click here to enter text.
Draft	Click here to enter text.
Auditor	Click here to enter text.
Date	DD MM YYYY

ITEM	Office use only	
<i>General</i>	Compliant	Non-compliant
ISM /SMS Issued by: Dated:	<input type="checkbox"/>	<input type="checkbox"/>
RIGMOVE Arrival / Departure Guidelines Briefed to bridge team: N/A Date of Briefing:	<input type="checkbox"/>	<input type="checkbox"/>
<i>Employers Liability of Insurance – Or Equivalent</i>		
Copy displayed at all relevant areas: Insurance Provider: Policy Number:	<input type="checkbox"/>	<input type="checkbox"/>
<i>Safe System of Work</i>		
Does the operator have an up to date safe system of work:	<input type="checkbox"/>	<input type="checkbox"/>
<i>Safety Information</i>		
Detail PPE worn by deck crew during towing operation:	<input type="checkbox"/>	<input type="checkbox"/>

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No of Lifejackets on board: Date of last service: Date of next service:	<input type="checkbox"/>	<input type="checkbox"/>
Risk Assessment – recording and availability <i>Please attach copy of the risk assessment records or a recent relevant risk assessment for the towing procedure.</i>	<input type="checkbox"/>	<input type="checkbox"/>
Tool Box Talks/ Awareness Records Title and Date of latest Toolbox talk relevant to towing operation: Title: Date delivered:	<input type="checkbox"/>	<input type="checkbox"/>
<i>Towage Operations</i>		
Rig Move Guidelines (Rig Moves Only) <i>Please attach signed copy of briefing sheet showing understanding of Rig Move Guidelines</i>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm understanding of Fort Ports Towage Guidelines	<input type="checkbox"/>	<input type="checkbox"/>
Reduced Visibility Parameters and Operations. Confirm procedure in place for Reduced Visibility situations:	<input type="checkbox"/>	<input type="checkbox"/>
Confirm that the Master is made aware of tidal/current influences specific to the River Tay.	<input type="checkbox"/>	<input type="checkbox"/>
Procedure covering pre/ post operation Check Lists Detail procedure in place:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Procedure covering Vessel Log Book</u> Is Deck Log book and Official Log book up to date:	<input type="checkbox"/>	<input type="checkbox"/>

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<u>Communications Procedures</u> Does the vessel have Communications procedure in place:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Confirm that Master has a full and effective understanding and conversant with the English language and is capable of communicating with Pilots/Tow master.</u>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Procedure covering Passage Planning</u> Does the vessel have a procedure for passage planning in place:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Port/ Terminal Closure Criteria</u> Is vessel fully aware of Port / Terminal Closure Criteria:	<input type="checkbox"/>	<input type="checkbox"/>
<i>Tug Maintenance – Confirm the following are in place</i>		
Certification Standard – Click here to enter text.	<input type="checkbox"/>	<input type="checkbox"/>
Procedure covering Maintenance & Recording including defect reporting:	<input type="checkbox"/>	<input type="checkbox"/>
Procedure covering Bunkering Operations – Safeguards, etc. :	<input type="checkbox"/>	<input type="checkbox"/>
<i>Personnel Particulars</i>		
Tug Manning Levels: Click here to enter text.	<input type="checkbox"/>	<input type="checkbox"/>
Crew Qualifications: Click here to enter text.	<input type="checkbox"/>	<input type="checkbox"/>

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Crew Training – confirm the following is in place		
Formal Company Training Procedure for each Rank:	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Training & Recording		
<u>Man Overboard:</u> Is written procedure in Place:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Recording of Exercise details</u> Date of Last MOB drill:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Use of Oil Pollution Equip</u> Is inventory up to date and suitable for vessel:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Recording of Exercise details</u> Date of last oil spill exercise:	<input type="checkbox"/>	<input type="checkbox"/>
<u>Use of Fire Fighting Equip</u> Written procedure in place:	<input type="checkbox"/>	<input type="checkbox"/>
Recording of Exercise details Date of last firefighting Exercise:	<input type="checkbox"/>	<input type="checkbox"/>
Towline Emergency Release Info:		
* Activation Position Details	Click here to enter text.	
* Release Details - Type	Click here to enter text.	
* Drill Frequency Details	Click here to enter text.	

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SIGNATURE OF DECLARATION		
Master of Towing Vessel Click here to enter text.	SIGN	<i>Signature</i>
	DATE	DD MM YYYY
Tow Master Click here to enter text.	SIGN	<i>Signature</i>
	DATE	DD MM YYYY
Harbour Master Click here to enter text.	SIGN	<i>Signature</i>
	DATE	DD MM YYYY

TUG DATA

Vessel	
Build/ IMO	
Type of Propulsion	Click here to enter text.
Power (BHP)	
Bollard Pull (Tonnes)	Click here to enter text.
Vessel Certification Details	
Issued by	
Certificate	Click here to enter text.
Expiry Date	DD MM YYYY
Restrictions/ Limits of Operation	Click here to enter text.
Documentation	
Radio Communication Equipment	<u>Confirm GMDSS log book up to date:</u>
Navigational Charts – As per Requirements listed at www.forthports.co.uk/marine/ftns - Marine Information	<u>Confirm all charts for passage are available on the vessel and up to date</u>
General Condition of Vessel	
Remarks:	Click here to enter text.
Harbour Master / Marine Manager - Comments	Click here to enter text.

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