

PETRONAS TECHNICAL STANDARDS

TECHNICAL SPECIFICATION

TRANSPORTATION

PTS 37.19.10.42

NOVEMBER 2011



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PTS Circular
2011 - 37.19.10.42



PTS No:	37.19.10.42
PTS Title:	Transportation

This revision of **PTS 37.19.10.42 – Transportation** has been updated incorporating PETRONAS Lessons Learnt, Best Practice and new information issued by relevant industry codes and standards.

This PTS shall replace the existing **PTS 20.109 (December 1984)**. The new title of this PTS shall be "**PTS 37.19.10.42 - Transportation**".

Document Approval

	Name	Designation	Date	Signature
Prepared	Ho Siew Chen	Structural Engineer, GTS	22/11/11	
Approved	M Sapihie B Ayob	Technical Authority, GTS	23/11/11	
Verified	Hashim Zainal Abidin	Senior Manager, CSP, Engineering, GTS	24/11/11	
Verified	Saifol Mualim Ahmad Yahaya	General Manager, Engineering, GTS	30/11/11	
Endorsed	Pau Kiew Huai	Senior General Manager, GTS	6.12.11	

Revision History

Rev No.	Reviewed by	Approved by	Date

PREFACE

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They are based on the experience acquired during the involvement with the design, construction, operation and maintenance of processing units and facilities. Where appropriate they are based on, or reference is made to, national and international standards and codes of practice.

The objective is to set the recommended standard for good technical practice to be applied by PETRONAS' OPU in oil and gas production facilities, refineries, gas processing plants, chemical plants, marketing facilities or any other such facility, and thereby to achieve maximum technical and economic benefit from standardization.

The information set forth in these publications is provided to users for their consideration and decision to implement. This is of particular importance where PTS may not cover every requirement or diversity of condition at each locality. The system of PTS is expected to be sufficiently flexible to allow individual operating units to adapt the information set forth in PTS to their own environment and requirements.

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GENERAL

1.1 Scope

This specification describes the COMPANY's requirements for transportation, i.e. Transportation of Project Materials from the Fabrication/Loading Site to the Installation Site and between Sites.

The COMPANY reserves the right to inspect any proposed vessel and will use these requirements as a guideline in accepting or refusing such vessel and/or any proposed towing arrangement.

Over and above the requirements as laid out in this Specification the Contractor must ensure that he complies with all government regulations e.g. Merchant shipping (control of oil pollution from ship) regulations 1935 etc.

1.2 Essential Definitions Related to Transportation

1.2.1 Mobilization

Mobilization includes the transportation of the Vessel(s) to the load-out facility at the point where the Project Materials are to be loaded onto the Vessels(s) and includes also all preparations required for load-out and transportation.

1.2.2 Demobilization

Demobilization means the departure of the Vessel(s) from the Area of Operations and commences immediately after the Cargo transported by said Vessel(s) has been discharged and includes the cleaning, removal of seafastening etc.

1.2.3 Working

Working means when all engines are operating and the Vessel(s) are on tow or moving for other reasons than defined under standby or idle.

1.2.4 Standby

Standby means that after the vessel(s) have arrived at the Installation Site or Fabrication/Loading Site she/they are being used to ensure the safety of the tow prior to the discharge of the entire cargo or prior to start of transportation and to keep the tow in the vicinity of the respective sites.

1.2.5 Idle

Idle means when all main engines are shutdown and the Vessel(s) are stationary (e.g. alongside a jetty a (derrick) barge, attached to mooring buoy or anchored). However the fully self-contained vessel(s) must be able to mobilise within 15 minutes.

1.2.6 Layday

Layday means a day when CONTRACTOR's Vessel (self propelled barge or barge with tug) is at the Nominated Seaport, at the Work Site or at the Installation Site, and is on standby or idle.

1.2.7 COMPANY SITE Representative C.S.R.

The COMPANY's Site Representative (C.S.R.) shall be the COMPANY's principal representative at the Work Site. His function is to ensure that the Work is completed in accordance with the Contract Documents, to coordinate the activities of the COMPANY inspectors and to report on the Work to the C.A.R. The C.A.R. may delegate to the C.S.R. powers and authorities vested in the C.A.R. and shall notify the CONTRACTOR in writing of all such delegations. The C.S.R. will be notified to the CONTRACTOR in writing by the C.A.R.

1.2.8 Others or Third Parties

Others or Third Parties means all parties other than the COMPANY, its Associate, the CONTRACTOR or the Sub-contractors.

1.2.9 Seafastening

Seafastening means required to tie down the cargo in such a way as to ensure a safe passage between sites.

1.2.10 Area of Operations

Area of Operations means the area within East Malaysia Territories where the COMPANY is entitled to conduct and carry out its petroleum operations.

1.2.11 East Malaysia Territories

East Malaysia Territories means the area comprising the States of Sabah and Sarawak and including therein, if the context so admits, the seabed and subsoil beneath the territorial waters and inland waters of each State and the continental shelves contiguous to the outer limit of the territorial waters of each State.

1.2.12 Mechanical Downtime

Mechanical Downtime means the period of time during each and every occasion when the Spread is unable to perform the actual tasks at the time, being tasks which the COMPANY requires to be performed, because of the need for maintenance or repairs of any of the vessels or equipment of the Spread.

1.2.13 Work Site or Site

Work Site or Site means the lands, sea and other places on, in or through which the Work is to be executed or carried out by the CONTRACTOR.

1.2.14 Fabrication Site

Fabrication Site means those part(s) of the Work Site which are on dry land or on inland waterways. The Fabrication Site shall include a load out point and the surrounding waters and shall allow safe load-out of all Project Materials onto suitable Vessels.

1.2.15 Installation Site

Installation Site means the offshore location including the surrounding sea where the Project Materials are to be installed.

1.2.16 Nominated Seaport

Nominated Seaport means the seaport near the Fabrication Site or the load-out at the Fabrication Site nominated by the Fabrication CONTRACTOR to which COMPANY Supplied Materials are to be delivered.

1.2.17 Installation Work

Installation Work means all of those part(s) of the Work which are to be performed offshore for the offloading from the transportation spread and installation of the Project Materials at the Installation Site, including but not limited to cutting loose of seafastening and making ready for normal usage of the aforesaid Project Materials.

1.2.18 Vessel(s)

Vessels mean the CONTRACTOR's own or hired self-propelled barges or tug(s) with cargo barges(s) complete with crew, equipment, consumables, etc.

1.2.19 Launch Barges

Launch barges are barges specifically designed, built and certified for the transport and certified for the transport and launching of jackets.

1.3 General Requirements

1.3.1 Tow Routes and Weather Forecast

An ocean routing Consultant of established reputation shall be engaged by the CONTRACTOR in order to assist the Master of the tow in performing his duties during then ocean tow in a good and seaman like manner. Sailing routes to be advised to the Company not later than five weeks before load-out.

Departure of any tow can only be authorised subject to a 48 hours fair weather forecast for the area concerned or as otherwise specified by the Independent Marine Surveyor approving the towing arrangements.

One towing forecast per day per tow commencing three (3) days prior to the scheduled departure of any tow shall be required and shall continue until the tow terminates at the installation site.