

PETRONAS TECHNICAL STANDARDS

PROCEDURAL SPECIFICATION

SITE SPECIFIC ASSESSMENT OF MOBILE OFFSHORE JACK-UP UNITS (AMENDMENT/SUPPLEMENTS TO THE SNAME GUIDELINE & RECOMMENDED PRACTICE)

PTS 37.11.00.30

OCTOBER 2011



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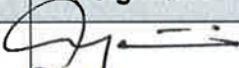
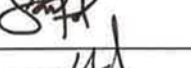
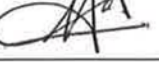
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PTS No:	37.11.00.30	
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This revision of PTS 37.11.00.30 - Site Specific Assessment of Mobile Jack-Up Units (Amendments/Supplements to the SNAME Guideline & Guideline Recommended Practice) (October 2011) has been updated to incorporate PETRONAS Lessons Learnt, Best Practice and new information issued by relevant industry code and standards. All updates in the document are highlighted in italic font.

The previous version of this PTS 37.11.00.30 (May 2004) will be removed from PTS binder / e-repository from herein onwards.

Document Approval

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Revision History

Rev No.	Reviewed by	Approved by	Date
1.0	-	-	December 1994
2.0	-	-	May 2004
3.0	WBS/MJR	MSA	October 2011

PREFACE

PETRONAS Technical Standards (PTS) publications reflect the views, at the time of publication of PETRONAS OPU/Divisions.

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 standardisation.

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.

When Contractors or Manufacturers/Suppliers use PTS they shall be solely responsible for the quality of work and the attainment of the required design and engineering standards. In particular, for those requirements not specifically covered, it is expected of them to follow those design and engineering practices which will achieve the same level of integrity as reflected in the PTS. If in doubt, the Contractor or Manufacturer/Supplier shall, without detracting from his own responsibility, consult the owner.

The right to use PTS rests with three categories of users:

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The copyright of PTS vests in PETRONAS. Users shall arrange for PTS to be held in safe custody and PETRONAS may at any time require information satisfactory to PETRONAS in order to ascertain how users implement this requirement.

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PART I INTRODUCTION

1.1 SCOPE

The primary objective of this PTS is to ensure the integrity of Jack-Ups in the elevated condition. This PTS provides guidance on engineering principles and practices relating to the site specific structural and foundation assessment of mobile offshore jack-up units. This PTS is revised to reflect the SNAME Technical and Research Bulletin 5-5A (Rev-2, January 2002), and also the lessons learnt from jack-up incidents.

This PTS is based on the industry Guideline and Recommended Practice for Site Specific Assessment of Mobile Jack-up Units, published by the American Society of Naval Architects and Marine Engineers, SNAME. Part II of this PTS amends, supplements or replaces the various sections of the Guideline. Part III provides amendments, supplements and replacements to the various sections of the Recommended Practice (RP). Sections of the SNAME Guideline and RP which are not mentioned in Part II and Part III of this PTS shall apply as written. Detailed amendments are not provided to the RP Commentaries, but instead general comment is provided in Part IV. Part V provides the list of references. Part VI provides the key information to be provided by the Contractor, as part of site specific assessment of the jack-up.

This PTS does not cover the design of jack-up structures.

This is a revision of the PTS of the number dated May 2004; see (1.5) regarding the changes.

1.2 DISTRIBUTION, APPLICABILITY AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by PETRONAS, the distribution of this PTS is confined to PETRONAS companies and, where necessary, to Contractors and Manufacturers/Suppliers nominated by them.

This PTS is intended for use in offshore exploration and production facilities.

When PTSs are applied, a Management of Change (MOC) process should be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements may be more stringent than in this PTS, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regard to the safety, environmental, economic and legal aspects. In all cases the Contractor shall inform the Principal of any deviation from the requirements of this PTS which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this PTS as closely as possible.

1.3 DEFINITIONS

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project or operation of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The **Principal** is the party that initiates the project and ultimately pays for its design and construction. The Principal will generally specify the technical requirements. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

1.4 CROSS-REFERENCES

The section numbering used in Part II of this PTS corresponds with that used in the SNAME Guideline, except that the letter G has been placed in front of the numbers. The section numbering in Part III corresponds with that of the Recommended Practice, with the prefix RP. Other documents referenced by this PTS are listed in Part V.

1.5 SUMMARY OF CHANGES SINCE PREVIOUS EDITION

The previous edition of this PTS was dated May 2004. The main non-editorial changes are summarised below:

Section	Change
Part 1-1.1	General description added
G2.1	General description added
G2.3	General description added
RP6.2	General description added
RP8	General description added