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GP 65-82

FPS Hull Transportation

Group Practice

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) GP 65-82 which provides requirements and guidelines for transportation and load-out of Floating production facilities.

The industry standard ISO 19901-6 Marine Operations, which is at present being drafted and is expected in 2008, will form the basis for FPF transportation and installation operation guidance for BP activities. This ETP, which provides interim guidance, is based on current industry practices and lessons learned from BP projects for load-out and transportation. Any ETP influenced guidelines will be released after the ISO issue to the industry.

The BP Group Marine Standard (GMS) will provide additional guidance on marine operations and marine assurance requirements.

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Introduction

This GP is based on the latest load-out and transportation guidelines issued by leading consultants and contractors in these areas. Additional requirements have been provided to supplement these guidelines based on BP project and other industry lessons learned.

A number of industry and internal documents will be issued in the near future, and this ETP is expected to be updated and revised when these documents are available.

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1. Scope

- a. This GP defines minimum technical requirements for marine transportation and related operations for floating production facility (FPF) hulls and their components.
- b. This covers the following operations:
 1. Load-out.
 2. Wet loading & unloading onto barge or transport ship.
 3. Dry transportation.
 4. Wet tow.
 5. Wet mating of FPF components.
 6. Installation at offshore site.
- c. Offshore jackets and mobile drilling rigs are NOT within the scope of this GP.

2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this technical practice are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

BP

GP GMS	Group Marine Standard.
GP 65-02	Integrity Management Guidelines for Floating Structures.
GIS 65-215	GIS on ISO 19901-5 Weight Control during Engineering & Construction
GIS 65-241	GIS on ISO 19904-1 Floating Offshore Structures – Part 1
GIS 65-617	GIS on ISO 19901-7 Station Keeping Systems.
GMS Practice	Shuttle Tanker Practice (future)
GMS Practice	Marine Operations Manual (future)

International Organization for Standardization (ISO)

ISO 19901-6	Marine Operations (draft standard).
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Other Industry Standards

- 1) Guidelines for Load-outs, Noble Denton 0013/NDI, Rev 3, dated 1/12/04.
- 2) Guidelines for Lifting Operations by Floating Crane Vessels, Noble Denton 0027/NDI, Rev 5, dated 15/10/02 (Note: This also applies to inshore lifts.).
- 3) General Guidelines for Marine Transportation, Noble Denton 0030/NDI, Rev 5, dated 1/4/05.
- 4) Engineering Guidelines and Criteria for Dry Transport, Dockwise, Revision 22/2/02.
- 5) Guidelines for the Approvability of Towing Vessels, Noble Denton 0021/NDI, Rev 6, dated 4/10/06
- 6) Common Marine Inspection Document, IMCA 149



- 7) Guidelines for Surveyors, IMCA 167
- 8) DNV guidelines for marine operations:
 - Load Transfer Operations (issued 1996)
 - Towing (issued 1996)
 - Special Sea Transports (issued 1996)
 - Offshore Installation (issued 1996)
 - Lifting (issued 1996)
 - Sub Sea Operations (issued 1996)
 - Transit and Positioning of Mobile Offshore Units (issued 2000)

3. Terms and definitions

For the purpose of this GP, the following terms and definitions apply:

Must	Strong mandatory requirement
Shall	Mandatory requirement
Should	Recommendation
Barge	Non-self-propelled transportation vessel
Floating production facility	An offshore floating facility for production, storage and offloading of oil and gas fluids.

4. Symbols and abbreviations

CG	Centre of gravity.
FMECA	Failure Modes Effects & Criticality Assessment
FPF	Floating production facility.
FPSO	Floating production storage offloading.
GM	Metacentric height.
PAU	Pre-assembled unit.
RCS	Recognised classification society

The following societies are considered to have adequately developed floating production facility rules:

American Bureau of Shipping
Bureau Veritas
Det Norske Veritas
Lloyd's Register

TLP	Tension leg platform.
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