

FPSO GLOBAL WORKSHOP

Tuesday & Wednesday, 24 & 25 September 2002

Wyndham Greenspoint Hotel, Houston, Texas

www.fpso-global-workshop.com

Organized by the SPE Facilities & Construction Group of Houston, and sponsored by Deepstar, FPSO Research Forum, Minerals Management Service (MMS), Offshore Operators' Committee, and the U.S. Coast Guard, with participation by the API Shuttle Vessel Task Force, and underwritten by the Gulf Coast Section of the Society of Petroleum Engineers.

You've taken the plunge and chosen to go with an FPSO as your preferred deepwater facility, but now what?

Will there be shuttle tankers available and meeting operational and regulatory requirements?"

Will the EIS truly clear the way for approval of my project?

What can be learned from recent FPSO experience elsewhere in the world?

Designed for operators, contractors, and business people contemplating such operations in the Gulf of Mexico, this workshop is a forum to exchange ideas on the technical and commercial attributes required and available in the industry today for selection of the means of getting a storage based production installation – FPSO or FSO – designed, built and operated with the benefit of the latest experience in today's world.

Combines Interests of Seven Industry Organizations:

This workshop brings together the oil companies in the Deepstar and Offshore Operators Committee communities, the vessel owners and upstream operators of the API Shuttle Vessel Task Force, the true FPSO practitioners in the FPSO Research Forum, the professional "industry neutral" industry service tradition of the Society of Petroleum Engineers (SPE) and the regulators of the Minerals Management Service (MMS) and the U.S. Coast Guard.

A practical means is thus provided for bringing the right group of people together to address current issues important for the design and safe operation of FPSOs, particularly matters needing attention for their introduction in the U.S. Gulf of Mexico.

Dilemma:

Currently the world's entire fleet of FPSOs operates outside GoM and so much of the world's FPSO expertise therefore rests in the heads of FPSO practitioners that are located outside the U.S. An objective of this workshop is therefore to attract the presence of these "Outside GoM" FPSO experts to Houston to allow open discussion on what is needed for FPSOs in GoM.

Another objective is to provide something of a "clearing house" for FPSO design and operational matters that the world's FPSO community may feel are now needed, and which the potential FPSO community in the U.S. may be interested in addressing via studies, JIPs or other collaborative efforts.

For these reasons this workshop is called an "FPSO Global Workshop".

Format:

Half-presentational and half audience discussion, the format is patterned after the series of five highly successful similar SPE Workshops in Houston and Rio de Janeiro in 1999-2002 on “The Latest in Deepwater Facility Selection”.

In this year’s workshop we make the transition to look at what happens now that the Minerals Management Service has approved FPSOs for operation in the Gulf of Mexico, according to their Record of Decision at the end of December.

What Does it Take to Get Started:

What really remains for regulatory approval for an FPSO for a deepwater development in GoM?

What are the operating and safety requirements that we need to apply, using industry best practices from elsewhere in the world where they do use FPSOs?

How do the FPSOs and shuttle tankers really interface for these future operations?

If we start to build these things here, how best to go about it and avoid the construction time and overruns that have plagued a good number of these projects in other parts of the world? These and other questions are addressed. We consider if new business models and technologies may be needed.

Open Discussion:

The idea of this quite intense two-day event is to capture some of the spirit of the open discussion typical of the week-long SPE forums. We will provoke fresh thinking without corporate restraints. Accordingly, the views expressed would be those of the speakers and attendees and would not necessarily be those of their employers.

Press will be excluded, to encourage open discussion, as in earlier workshops organized by the SPE Facilities & Construction Group of Houston.

In view of the industry attention that this workshop has received, we felt that some limited mention in the industry press is appropriate. A Press Briefing will therefore be held immediately after the workshop, in which the industry leaders from our seven sponsors will briefly summarize their conclusions – just as they do at the Workshop half an hour earlier - to five recognized petroleum industry journalists, and would be available for questions. A.D. Koen is staging and moderating the Press Briefing.

Broad Industry Appeal:

This workshop will appeal to all involved in the business and technology of deepwater facility selection for oil production and the choice of technologies and tools to bring these reserves economically and efficiently to market.

It may be useful not only to oil company management, and engineering companies engaged in the development of new deepwater oil and gas reserves, but also to those involved in corporate planning and in the technical and commercial evaluation of new prospects.

At this workshop you will hear from leading oil companies on their problems, options, and opportunities for bringing the oil to refineries from deepwater facilities, with a focus on the deeper more remote Gulf of Mexico plays. It will provide a forum for business people and providers of the more proven new technology to discuss first hand how they might provide acceptable solutions to a relatively new transportation business opportunity.

Two Day Program:

The first day starts with the requirements of U.S. regulators and of Gulf of Mexico (GoM) operating oil companies, as well what is seen as necessary for FPSO operations outside the U.S. by oil companies who operate FPSOs there, thereby identifying what remaining barriers (if any) exist to FPSO operations in the GoM.

The second day looks at the introduction of shuttle tanker operations into an area which has not used them before, the interfaces, impacts and practical operating practices to be resolved. Adaptation of experience from designing and building FPSOs for locations outside the U.S. are considered for experiences - contracting and commercial, not always technical – that may be valuable for projects inside U.S. waters, in the Gulf of Mexico.

The workshop is intended to offer attendees a means of gaining insights on: (a) FPSO know how from outside the U.S. that may be useful in GoM, (b) a better appreciation of the drivers and problems facing operators in the FPSO developments and the priorities and regulatory requirements involved, and (c) exploring new ways of addressing the business opportunities now emerging.

FPSO GLOBAL WORKSHOP

A G E N D A

Tuesday & Wednesday, 24 & 25 September 2002

Day One

7.30 Register, Gather, Continental Breakfast

Starting Points

8.30 Welcome, Introduction to Workshop *Peter Lovie*

Why are we here? Objectives, the Participating Organizations

Offshore Operators' Committee	<i>Allen Verret</i>
API Shuttle Vessel Task Force	<i>Tricia Clark</i>
Deepstar	<i>David Saylor</i>
FPSO Research Forum	<i>Steve Balint</i>
Minerals Management Service (MMS)	<i>Jim Grant</i>
Society of Petroleum Engineers (S P E)	<i>Peter Lovie</i>
U.S. Coast Guard	<i>Mark Prescott</i>

The Latest in the GoM Regulatory Framework for FPSOs, What It Really Means Today

9.20 *Moderator: Allen Verret
[Offshore Operators Committee]*

Update and Relationship to Other Regulatory Processes	<i>Jim Grant – Minerals Management Service</i>
Update and Relationship to Other Regulatory Processes	<i>Mark Prescott – U.S. Coast Guard</i>

10.00 Coffee Break

Typical FPSO Operators' Requirements Outside GoM

10.25 *Moderator: Steve Balint
[FPSO Research Forum]*

Oil Co. Owner & User of FPSOs	<i>Round Table Discussion</i>	<i>Dave Edwards- Shell Marco Maddalena - Petrobras Mark Buetzow – ChevronTexaco</i>
-------------------------------	-----------------------------------	---

*Mitch Winkler - Shell
Ben Thurmond – BP*

Contractor Owner of FPSOs

*Round Table
Discussion*

*John Lane - Modec
John Spittal – PGS
Allan Millmaker - Bluewater
Rob Mountjoy – SBMImodco*

World's Top Three Priorities for
Best Practices in FPSO Design,
Operation, Safety and Regulatory
Approval

*FPSO Research
Forum*

*Johan Wichers - Marin
Steve Balint - Shell*

12.45 Lunch

Typical Operators' Requirements for FPSOs for GoM

1.55

Moderator: Allen Verret
[Offshore Operators' Committee]

Economics Issues for FPSOs
in GoM: What's Different?

*Rick Meyer & Shell Exploration &
Mitch Winkler Production Company*

Typical Performance Expectations

Carl-Arne Carlsen Det Norske Veritas

Typical Operating & Safety Needs

*Wanda Parker Deepstar 6100
Committee*

3.45 Coffee Break

4.15 Expected Operating Procedures
for FPSO / Shuttle Vessel Operations

*Tricia Clark API Shuttle Vessel
Task Force*

GoM's Top Three Priorities for
Best Practices in FPSO Design,
Operation, Safety and Regulatory
Approval

*Bill Sember American Bureau of
Shipping*

Closing Statement – Issues to Ponder for Tomorrow

5.35

Steve Balint & Allen Verret

5.50 Workshop Close – Day One

Peter Lovie

6.00-8.00 Reception & Networking

Day Two

07.45 Gather, Coffee, Continental Breakfast

08.30 Recap on Day One, Objectives in Day Two ***Peter Lovie***

Town Hall Meeting: Brief Presentations on Future Needs by Attendees

***Moderators: Peter Lovie S P E
Adrian Macmillan (FPSO)***

8.40 Generally 5 minutes talk perhaps with 1-3 slides, 5 minutes discussion, from each of five (5) attendees pre-selected from their questions asked on the sign up form.

Input is solicited from attendees in advance of workshop via completion of a website form asking for outlines of issues believed 3 most important.

Idea is that unknown concerns in the FPSO community are brought into the open, whether they can be dismissed easily, or may need more study.

Becomes an opportunity for individuals and companies to express views and debate them with the attendees.

***Where do the shuttle vessels come from? What requirements apply?
How can they compete with established pipeline networks?***

9.35

Moderator: Mark Buetzow
[API Shuttle Vessel Task Force]

Established GoM Environmental &
Reliability Performance v. Shuttle Tankers

Skip Ward

*Offshore Technology
Research Center*

Pipeline Infrastructure, Economics, Risks for
GoM v. Shuttle Tankers

Terry Stock

*Callon Petroleum
Company*

10.10 Coffee Break

10.35 Adaptation of Existing North Sea
Shuttle Tankers & Practices to GoM

Stein Rynning
Navion ASA

Commonality of GoM Lightering

John Ellis
Skaugen PetroTrans Inc.

A New Venture in the U.S. Market

Chuck Steube,
Seahorse Shuttling & Technology LLC

12.20 Lunch

Time for the Practical Stuff: How do we now obtain one of these FPSOs for GoM?

1.30

Moderator: Peter Lovie
[Society of Petroleum Engineers]

What does it take to get started?
How long? GoM challenges in the
regulatory approval process?
Getting the design and execution plan right?
Then the bidding process?

Discussion
Panel:

Jim Grant
Mark Prescott
Allen Verret
David Saylor
George Rodenbusch

An oil company's viewpoint on the
process of acquiring an FPSO

Marco Maddalena

Petrobras

The Commercial Side - lease or buy
an FPSO? Existing or Newbuild?

Per Bergstol

Fearnley
Offshore

3.30 Coffee Break

3.50	The FPSO Contractor Solution	<i>Rob Mountjoy</i>	<i>SBMImodco</i>
	The Engineering & Construction Contractor Solution	<i>Jan Wagner</i>	<i>Fluor Corporation</i>

Where Now? Conclusions from Industry Leaders in Sponsoring Organizations:-

5.00	Deepstar	<i>David Saylor</i>	<i>Unocal</i>
	FPSO Research Forum	<i>Steve Balint</i>	<i>Shell</i>
	Minerals Management Service	<i>Jim Grant</i>	<i>M M S</i>
	Offshore Operators Committee	<i>Allen Verret</i>	<i>Murphy O&G</i>
	API Shuttle Vessel Task Force	<i>Tricia Clark</i>	<i>Skaugen PetroTrans</i>
	Society of Petroleum Engineers	<i>Peter Lovie</i>	<i>Am.Shuttle Tk</i>
	U.S. Coast Guard	<i>Mark Prescott</i>	<i>U S C G</i>
5.30	Workshop Close	<i>Peter Lovie</i>	

LOCATION:

The Wyndham Greenspoint Hotel, located near I-45, just north of the Sam Houston Tollway (West Belt), provides easy access from both Houston airports. Address: 12400 Greenspoint, Houston, TX 77060; Phone: 281 875 2222; Fax: 281 875 0099.

AUDIENCE:

The Real Practitioners. Intended for engineers and managers involved in - or contemplating - the design, construction and operation of deepwater facilities for oil and gas production, possibly using FPSOs, with particular emphasis on the U.S. Gulf of Mexico.

QUESTIONS FOR DISCUSSION:

Be sure to give us your top three questions you'd most like to see addressed in this workshop.

Please indicate if you'd like to talk in the "Town Hall Meeting" at the start of Day Two. Space for your thoughts and questions is provided on the website registration form - which can also be downloaded and mailed in separately.

COST:

\$525 in advance, \$595 at the door. Substitutions OK. No refunds. Will discuss block bookings by companies.

WEBSITE WORKSHOP MATERIALS:

The complete set of presentations will be made available to attendees after the workshop via www.fpsoglobal-workshop.com

There will be no other printed papers or transcribed notes.

QUESTIONS, MORE INFORMATION:

Please either call the Workshop Administrator (Linda Calvey) at 832 264 3634, or e-mail us at:-
info@fpso-global-workshop.com

TO SIGN UP:

Either: Complete the application form on line and pay with a credit card on:-

www.fpso-global-workshop.com

Or: Download the application form from the website, complete and mail in with a company check to:

FPSO Global Workshop
c/o Society of Petroleum Engineers (SPE) - Gulf Coast Section
9555 West Sam Houston Parkway South
Suite 360
Houston, TX 77099

Workshop Steering Committee

<u>Who</u>	<u>Company, Location</u>	<u>Affiliation</u>	<u>Responsibilities</u>
Steve Balint	Shell Intl. Exp. & Prod. Houston	FPSO Research Forum	Chair of F R F / Content
Tricia Clark	Skaugen PetroTrans, Inc. Houston	API Shuttle Vessel Task Force	Content / Shuttle Vessel Segment
Jim Grant	Minerals Management Service, New Orleans	Minerals Mgmt. Service	Regulators' Perspective
Hugh Kirkpatrick	Kirkpatrick Consulting Houston	Society of Petroleum Engineers	Treasurer / Arrangements Lead
Peter Lovie	American Shuttle Tankers Houston	Society of Petroleum Engineers	Chair / Organizer Content Lead
Adrian MacMillan	Det Norske Veritas Houston	FPSO Research Forum	F R F Content
Rick Meyer	Shell Expl. & Prod. Co. New Orleans	API Shuttle Vessel Task Force	Shuttle Vessel related content
Mark Prescott	U.S. Coast Guard Washington DC	U.S. Coast Guard	Regulators' Perspective
David Saylor	Unocal Deepwater USA Houston	Deepstar / 6100 Committee	FPSOs / Technical Content
Allen Verret	Murphy Expl. & Prod. New Orleans	Offshore Operators Committee	Exec. Dir of O O C / Regulatory & Field Dev.
Bill Westcott	Subsea 7 / Halliburton Houston	Society of Petroleum Engineers	Marketing Lead
Johan Wichers	Marin USA Inc. Houston	FPSO Research Forum	F R F Content

Brochure Draft.doc