



The Life-Cycle of Flexible Risers and Flowlines

An Awareness Course



29th & 30th April 2009

Fremantle Room, Parmelia Hilton Hotel, Mill Street, Perth, Australia

This course has been developed by three flexible pipe manufacturers and key companies associated with system design, failure mode analysis, and integrity management of flexible flowlines and risers.

The course is aimed at those who specify, purchase, approve, install, operate, manage the integrity of, or decommission flexible risers or flowlines, including jumpers.

The course should provide enough knowledge for them to feel comfortable with their responsibilities and is likely to apply to both engineers and non-engineers at various stages in their careers.

Day 1

09.00 Registration and Coffee

Introduction to Flexible Pipe

Design of Flexible Risers and Flowlines

- The structure of different types of flexible pipe
- Materials: plastics and their selection; corrosion considerations for steel
- Static flowline design issues, including flow assurance and impact protection
- Dynamic riser design issues, including dynamic analysis and fatigue analysis

12.15 – 13.15 Lunch

Design of Flexible Risers and Flowlines Cont.

- How flexible pipe is manufactured
- Overview of ancillary equipment
- Future technology (including deep water issues)

Installation of Flexibles

- Installation equipment (reels, carousels, etc)
- Considerations for selection of method, equipment, installation vessel etc.
- Installation analysis: load prediction, sea state limitations, minimum bend radius etc.
- Tie-in operations

16.45 Close

18.00 Course Dinner



PROGRAMME

Day 2

09.00 Coffee

Damage, Degradation and Failure Modes

- How design takes account of failure modes
- Practical experience – use, damage and failure
- Flexible pipe failure modes, and their mechanisms
- How integrity management is linked to failure modes
- Guideline on Flexible Pipe Integrity Management

Codes & Standards

- Which Codes & Standards are relevant
- Key issues relating to interpretation
- Ongoing developments in the Codes & Standards

12.35 – 13.35 Lunch

Integrity Management

- Integrity versus Asset management, what is the difference?
- What are the requirements of an IM system?
- How do you apply IM?
- A currently operating asset - study of an actual IM system in action

Applications of Flexible Pipe in the North West Shelf of Australia

- Typical applications in the area
- Site specific design and installation issues
- Case studies

16.45 Close

SUT reserves the right to update/change the programme as it sees fit.

Companies Contributing To The Course:



Registration Information – The Life-Cycle of Flexible Risers and Flowlines (April 09)

For further information on this event please contact Joyce Bremner on j.bremner@sut.org or call +61 (8) 9446 9903
To register, either e-mail the information required on the registration form to perthevents@sut.org or fax the completed form to +61 (8) 9446 9905,

Registration Fees

SUT Members \$1100.00 (inclusive of GST)

Non Member \$1320.00 (inclusive of GST)

Included in the Fees: All refreshments during the Course (including dinner on the first night), and copy of the Course notes.

Preferred Payment Methods:

Credit Card: Mastercard or Visa or AMEX* ONLY. We cannot accept payment by any other card

*Please note a 2.75% charge will be added if paying by AMEX

Cheque: Australian Dollar only, made payable to The Society for Underwater Technology

Send to, Post Office Box 7284, Cloisters Square, Perth 6850

Please make sure you reserve a place by e-mail or fax before posting your cheque.

Joining Instructions:

Joining instructions will be e-mailed to the registered delegate (as shown on the registration form). Details of Venue, lecturers and updates to the programme will be included in the joining instructions.

Course Dinner:

An informal dinner will be held in a local restaurant on the first night of the course (details with joining instructions)

Cancellations:

Refunds will be made on written cancellation received up to ten working days in advance of the event, but will be subject to a 15% handling charge. 50% will be deducted up to three working days in advance and 100% thereafter up to the start of the event. No refund will be given for non-attendance. Delegates may wish to nominate a substitute in their place.

Transport During the Course:

Delegates are responsible for their own travel arrangements at the beginning and end of each day.

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Registration Form

Please e-mail details to perthevents@sut.org or fax the completed form to (08) 9446 9905

SUT Member No. _____

Please tick to indicate your preferred payment method:

Credit Card _____ (Visa or MasterCard) Cheque _____ Invoice (PO No.) _____

Name _____

Company _____

Address _____

E-mail address _____ Tel No. _____

Credit Card No: VISA or MASTER CARD ONLY. _____ / _____ / _____ / _____

Exp. _____ / _____ Security no _____ (last 3 digits on the back of your card)

Name on the card _____

Billing Address if not as above _____

Amount to be charged \$ _____ Signature _____