



IADC
BRAZIL
CHAPTER



IADC Technical Committee

April 11, 2017



IADC ANTITRUST POLICY AND GUIDELINES

The International Association of Drilling Contractors (IADC) was established to undertake activities for the benefit of the oil and gas drilling industry, to promote safety, environmental preservation and advances in drilling technology. IADC is committed to compliance with US, EC, and EEA, and other applicable antitrust and competition laws.

All IADC Committee, Chapter, Subcommittee and other activities will be conducted in compliance within the letter and spirit of antitrust laws to avoid even the appearance of impropriety. Each member company is responsible for its own compliance with such laws. Members are encouraged to consult with legal counsel regarding antitrust and competition matters when participating in IADC events and activities.

1. General Antitrust Guidelines for IADC Members

As an IADC member serving on an Association Committee, Chapter, Subcommittee, Task Force, etc., you should acquaint yourself with these guidelines. It is appropriate for IADC and its members to engage in a variety of beneficial activities, including development of proposed standards and collection of industry statistical data. It is prudent for members to exercise caution, however, and refrain from discussion of or joint action in connection with the following topics:

1. Current or future prices, price adjustments, discounts or credit terms.
2. Profit levels sought or attained.
3. Dividing or allocating customers, markets, or territories.
4. Any refusal to deal with or boycott a customer, potential customer, supplier or potential supplier.
5. Activities that would lessen the ability of others to compete or potentially compete with IADC members.
6. Restrictions or limits on the availability of services.
7. Any limits on sales of services or use of equipment.
8. Wages, other compensation and other employment terms.

Any action recommended by IADC to its members is to be voluntary, not mandatory. Each Producer, Drilling Contractor or Associate Member must make its own individual marketplace decision whether to follow any IADC recommendation.

Each IADC member may consult with his/her own counsel or IADC's counsel should they have questions concerning the permissibility of discussing any topic. IADC may seek advice of counsel in determining whether a recommendation or topic may be disseminated.

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2. IADC Guidelines for Meetings

The following general guidelines for IADC meetings should help avoid potential antitrust problems:

1. The Chairperson of the meeting should control the meeting.
2. In advance of a meeting, a notice of the meeting should be sent to each invitee and a copy sent to other interested parties. The notice may contain an agenda or refer to a website location where the agenda can be found.
3. The meeting should be conducted in accordance with the agenda, though items may be discussed in a different order than listed. In general, subjects not included on the agenda should be raised under Other Business and considered for inclusion on the agenda for a future meeting.
4. If a member is uncertain about the legality of a particular topic, he or she should check with legal counsel, the Chairman of the meeting or IADC staff. If an attendee brings up for discussion at a meeting a subject of doubtful legality, he should immediately be informed that the subject is not a proper one for discussion. In the absence of counsel, the Chairperson, IADC staff or any member present who is aware of the legal implications of a discussion of the subject should halt the discussion. Should the discussion continue, despite protest, the Chairperson or IADC staff should declare the meeting closed and all the attendees should leave.
5. General minutes of meetings should be kept and maintained for future reference at the committee specific site on IADC's website for a period of 9-12 months. Upon removal from the web site, they should be archived in the meeting records for a minimum of three years. Matters subject to attorney-client privilege will not be posted on the website, but will be included in the meeting records.
6. Secret or "rump" meetings held at the time of the regular meeting should be strictly avoided. Such meetings seldom have a purpose except to discuss activities of doubtful legality, and can seriously jeopardize legitimate activities, and create a risk that those activities may be investigated.
7. During meetings there should be no recommendations with respect to "sensitive" antitrust subjects. In the less sensitive areas, such as standardization activities, recommendations may be permissible.

Agenda

1. Introductions
2. Review of main topics for 2017
3. Technical Presentations
 - IADC DROPS Prevention initiative (update)
 - Critical Bolting Inspections – Phased array and hardness testing
4. Other topics
 - Contact list update
 - Volunteers
 - IOC's NOC's participation on IADC Brazil Chapter
 - Upcoming events: Cook-off, IADC GM
 - Open Forum

2 - 2017 Main Topics

1. DROPS Prevention Initiative (Petrobras, Manutenção e Integridade)
 - Focal Point: Pedro Freitas
 - Deliverables / target date: 04/July – IADC Ops/Tech
2. Well Control Equipment Requirements – Industry development
 - Focal Point: Marcio Motta
 - Deliverables/ target date: 29/June – IADC GM
3. Hidroblasting Operations – recent HSE incidents
 - Focal Point: **Name**
 - Deliverables / target date: **Waiting on final report.**
4. WSOG (4 DP alert status) – maintain the focus from 2016.
 - Focal Point; B. Manfredini / **Name**
 - Deliverables / target date: Continue the discussions about trigger points and alert status.

Topics for Discussion (DROPS Prevention Initiative, BR)

- Focal Point: Pedro Freitas
- Deliverables / target date: 04/Jul – IADC Ops Tech Meeting
 - SLIDES FROM PETROBRAS / submitted
 - SLIDES FROM IADC / under review
 - Technical Advisory / to development

Pedro,

At this point, I think the only pending action is to have this as a topic of discussion at the next HSE committee meeting on 4/27. This would provide thorough feedback from the industry as a whole (*as offshore, onshore, U.S & International are all represented*).

After that we can follow up and move forward as directed. I wasn't able to attend the last DROPS meeting, however I know that some of attendees from that meeting and the HSE committee tend to overlap, so I would expect a thorough analysis on 4/27. Thanks for your contribution toward this initiative through the Brazil Chapter. Will talk to you soon.

Rhett H. Winter
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Topics for Discussion (Well Control Related issues)

- Focal Point: Marcio Motta
- Deliverables/ target date: 29/June – IADC GM

Subsea Work Group (Well Control Related issues)

1. Introductions - Who are we?

- Marcio Motta / Transocean
- Luciano Costa / Seadril
- Edvaldo Conceição / Odebrecht
- Felipe Martins / Brasdril
- Leonardo Gouveia / Ventura
- Marcio Santin / Ensco
- Julio Pereira / Schain
- Wedson Carneiro / Etesco
- Ricardo Vieira / Ocean-Rig
- Bruno Acioli / Queiroz Galvão

2. Motivation & Objectives

Group formed in 2015 by drilling contractors **Subsea Department Heads** in Brazil to develop the O&G Industry and improve the efficiency of the Subsea systems on a drilling rig.

The group objective is to discuss common challenges and share experiences among all drilling contractors. The goal is to improve efficiency for the operators and maintain compliance with the standards and regulator (ANP)



Subsea Work Group

3. Sharing of lessons learned and best practices

- Pendencias
- Major NPT events
- Critical Spares – reducing the industry NPT

4. Technical Discussions ongoing

- BOP Bolts
- COC / COS
- Common Pendencias and how to treat it.

3 - Technical Presentations

Expectations;

- Generate value to the Oil & Gas industry in Brazil
- Focus on real solutions rather than conceptual ones
- No sales pitch; technical interest should generate separate commercial discussions
- Presentation duration limited to 20 minutes plus 5 minutes for Q&A
- Suggestions are to be sent to IADC Adm and Tech Committee Leader

3 - Technical Presentations

- BOP reliability. JIP updates from IADC Corporate – this has been presented on the GM on the 30/March.
- Critical Bolting – inspection on BOP & Risers – Gleysson Castro / Petrustech – 11/April Ops Tech
- CBM – Condition Based Maintenance on risers. “Swin, Subsea Wellhead Integrity Monitoring”. Melqui Santos / 4Subsea – 29/Jun GM
- Critical Equipment list – updates on the discussion and on the application of the concept for Petrobras and ANP – Petrobras – Required?
- Class and Industry Standards for WCE Overhauls at non-OEM facility – DnV GL / Odebrestch – When?
- BOP-RDT Retrieval Decision Tool – 4/July Ops Tech
- Hoses and Fittings (New technologies) – Parker / Fabio Scivoletto - 4/July Ops Tech
- Waste Water Treatment. Company: RENA - 4/July Ops Tech
- BOP Fluid Quality and Sampling methodology – Houghton
- Petrobras Decision Matrix for critical maintenance. (Matriz de decisão), need to get feedback from Drilling Contractors. (Emmanuel Issac)
- New Technologies and solutions to monitor and record deck crane operation – (Marcio Santos)
- RFID Technology being applied on drilling string. (NOV – Wedson Carneiro)
- Top drive HPS 10.000 Gear Box failure mode analysis. (NOV – Diego Nascimento)

4 – Schedule next Committe Meetings

- 16/Feb/2017 – Tech Committe Meeting
 - 11/April/2017 - Tech Committe Meeting
 - 04/July/2017 - Tech Committe Meeting
 - 03/Oct/2017 - Tech Committe Meeting
 - 28/Nov/2017 - Tech Committe Meeting
 - When / as needed...
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- Place: Transocean Macaé / Video Conference to Rio Office
 - Time: 03:30 – 05:00pm (TBC)

5 - Other topics & Open Forum

- Contact list of all Drilling Contractors and IADC Members
 - Companies to send email to IADC Adm
 - IADC will share this list after updates
- Tech Committe Members
 - Volunteers to contact IADC Adm with contacts.
- Participation of Petrobras and other IOCs on IADC. What is their interest?
 - Who are our contacts?
- Cookoff Update (VILA)
- Open forum...
- Closeout