

OIL & GAS

ISO TC 67/SC 7/WG 7

Progress report to IJUC meeting of 17th July 2014

Mike Hoyle, Noble Denton Marine Assurance & Advisory

2014-07-17

WG7 is responsible for:

- 19905-1 – Site Specific Assessment (SSA) of mobile jack-up units.
- 19905-2 – Technical Report, including a Go-By (or “detailed example calculation”).
- 19905-3 – SSA for Mobile floaters.
(P53: Leader John Stiff)



Recent WG7 meetings

- Since last SC7 meeting:
34th WG7 meeting, May 2013 in Houston,
with all Panel meeting (some combined).
- Previous meeting:
33rd meeting, September 2013 in London
with some Panel meetings.
- Next meetings planned for:
 - November 2014 in London
 - May 2015 in Houston.



Status of ISO 19905-1 SSA for mobile Jack-Ups

- 1st August 2012: Published (in July 2012), but unaware of this until September 2012.
- Sept 2012 - 2014: P4 identified some technical glitches. Documented fixes received in Jan 2013 from P4 and then revised in May 2013, September 2013 and May 2014.
- Ongoing receipt of typos – most minor, but some significant.
- The first Corrigenda was submitted to ISO on 4th June - after taking a while at BSI for editorial clean-up. Expecting draft of the update for pre-publication review shortly.

Status of ISO/TR 19905-2

Jack-Ups, Commentary and Example Calculation

- After the lengthy saga to reach ISO in final and approved/balloted form, was published in December 2013.
- The ISO is dated 2012, to match references in 19905-1, but CEN & BSI have dated their wrappers December 2013.
- Limited feedback so far:
 - WG7 Convenor identified a figure with incorrect axis label (carried through from SNAME).
 - User (Hugo, GustoMSC) queried some foundation stiffnesses in the “Go-By”
 - these should have been updated;
 - correct values used in calcs.

PD CEN ISO/TR 19905-2:2013
ISO/TR 19905-2:2012(E)

TECHNICAL REPORT
RAPPORT TECHNIQUE
TECHNISCHER BERICHT

CEN ISO/TR 19905-2

December 2013

ICS 75.180.10

PD CEN ISO/TR 19905-2:2013



BSI Standards Publication

Petroleum and natural gas industries — Site-specific assessment of mobile offshore units

Part 2: Jack-ups commentary and detailed sample calculation

Status of ISO/TR 19905-3

SSA for Mobile floaters - Panel 53 – John Stiff

John

Status of ISO/TR 19905-3 SSA for Mobile floaters - Panel 53 – John Stiff

- Meeting 11th Feb 2011 to decide necessity for Separate Document.
- Outline Document developed March 2011 (20 page “NWIP draft”).
- Initial Document Review Panel June/Sept. 2011 (Houston & London).
- Formal Acceptance of NWIP by ISO SC7 November 2011.
- Meeting on 21st March 2013 at BP, Houston – with Scope & Structural changes to document.
- Revised DRAFT sent out mid-May 2013.
- Meeting on 30th May 2013 at IADC in Houston.
- ISO-speak session JJS/MJRH in September (post City University & WG7).
- Meeting on 11th December 2013 at Total in Paris.
- Meeting on 28th February at IADC in Houston – about 20 attendees.
- Next meeting – when??
- Then Editing – for DIS – extended schedule requires DIS by 2014-11-03.

Topics from WG7's May 2014 meetings (1)

- We have a list of 19905-1 carry-forwards and a growing list of new/update topics for Rev 1.
- Plan is to push on with work for 19905-1 Rev 1 for issue before the 5-year review. Full set of meetings planned for November 2014 in London and Houston during OTC2015, with an editorial (ERP) meeting between (funding will be needed for some ERP members).
- BUT ... Some of the action items will not progress without funding/corporate prioritisation:
 - Updates on radiation damping for earthquakes. Awaiting input from Adel Younan of ExxonMobil.
 - Review adequacy of additional load cases near resonance. Stock/Perry have proposal in with IADC Jack-Up Committee (IJUC).

Topics from WG7's May 2014 meetings (2)

- Potential for updates to Wave spreading and kinematic reduction factor based on project work for Statoil by GustoMSC/DNV GL (should this be published).
- Concerns raised over the 19901-9 (SIM) and its potential to affect the present regime for Classed jack-ups.
WG7 requested a formal liaison with the WG3 SIM team.
- The interface between 19905-1 and 19906 for ice loads/management needs clarification/resolution. Lots of “good words” have been shared recently, but these have been of limited practical value. **More later from John.**
- Some issues raised by Youhu Zhang in P4 regarding the potential for non-conservatism in ISO's (Jack's) stiffness and capacity equations. Panel members and Zhang are looking into this. **If Zhang's findings are supported by P4 this would have a negative impact on SSA results.**
- Jack is looking into improved numbers deep strong layer; **this would benefit SSA results if good outcome & accepted by P4.**

Topics from WG7's May 2014 meetings (3)

- Present earthquake provisions in 19905-1 appear overly-conservative.
- Need to absorb Global Maritime's benchmarking study (funded by ExxonMobil & Shell) and find a way forward. May need some further funding for this.
- Whilst not a routine SSA requirement for MWS (not in JRC Scope), this may become an issue if/when Operators want ISO 19905-1 compliance.
- Tie-in with UC Davies centrifuge/shake-table JIP ?



Topics from WG7's May 2014 meetings (4)

There is a desire for a document that addresses going on and off location. Probably best we start working the topic. Some questions:

- *Is there a need for a standard to address "going on/off location" i.e. from when a MOU arrives at a location to when it is in place and the reverse?*
- *Should such a standard be limited to those tasks that are required and avoid the desired but not required?*
- *Should this be added as a Part to ISO 19905 (i.e. a separate document), included in ISO 19901-6, Marine Operations, or ?*
- *If agreement is reached to proceed, who should be included in the make up the ISO panel?*
- *Is there an existing "best practice that can used the basis for such a standard?"*
 - *IADC Safety in Transit*
 - *UKOAA Guidelines for Safe Movement of Self-elevating Offshore Installations (Jack-ups) April 1995, issue no.1*
 - *RenewablesUK "Guidelines for the Selection and Operation of Jack-ups in the Marine Renewable Energy Industry"*
 - *DNV GL Internal and External documents*
 - *And ??????*

Schedule for November 2014 meetings in London

Monday 10th November

0900-1730 – Joint meeting of: P10 – Assessment criteria,
P0 – General / Preamble,
P1-2 – Metocean & Actions,
P11 – Long Term Considerations,

Tuesday 11th November

0900-1730 – P4 – Foundations
1330-1700 – P3 – Structural Modelling and Response

Wednesday 12th November

0900-1200 – WG7
1300-1700 – P5 – Earthquake

Thursday 13th November

0900-1730 – P53 – Floaters

Friday 14th November [Tentative]

0900-1730 – WG5/P5 – Stationkeeping

Looking Forward

- We hope that renewed engagement in the as a result of the topics discussed above will help us regain the Technical Panel momentum that was lost as a result of the recent issues (trade sanctions & copyright).
- We desperately need new blood in the WG & TP's, and a succession plan at all levels.



And last, but not least

Thanks to all who have contributed to 19905-1 and 19905-2 over all the years

...

and those who are working on 19905-3.

The IJUC's contribution has been important:

- IJUC supported projects have been key to a number of technical developments
- IJUC has supported the participation of key consultants from smaller organisations:

Dave, Doug and Jack

This has been vital to the process and to safeguarding the IJUC's interests.

Given the list of "to-do's" and their potential consequences, it is hoped that this support will be continued.



The End

Mike Hoyle

Mike.hoyle@dnvgl.com

+44 20 7812 8788

+44 77 4779 5443

www.dnvgl.com

SAFER, SMARTER, GREENER



LeTourneau Tarzan "Scooter Yeargan"



LeT "GSF High Island II"
after Rita



BMC JU-200 "Arabdrill 19"