

19th Joint Meeting of ISO/TC67/SC4/WG6 and API SC17
Atlanta Hilton Hotel – API Summer Standards Conference
Atlanta, GA

June 14, 2005 – Joint Meeting - 8:00 am

1. Opening of the meeting (*Bednar/Inderberg*)
2. Roll call/Roster Update (*Jordan*)
3. Adoption of the proposed agenda (*Bednar/Inderberg*)
4. Adoption of the minutes from 18th joint meeting (*Bednar/Inderberg*)
5. Status and action plan update (***See Attached Action Items***)
6. Task Group/Project Group Reports (***See Attached Work Program***)
 - A. Subsea Production Systems (API TG7)
 - Discussion from Tuesday session
 - B. Flexible Pipe (API TG1) (*Doynov*)
 - ISO 13628-2/API Spec 17J & ISO 13628-11/API RP 17B – report on progress and status of JIP to update standards
 - Status of ISO FDIS Ballot & Adopt-back for 17J/-2 & 17B/-11
 - 17L - Flexible Pipe Ancillary Equipment JIP – report on progress to date
 - C. TFL Systems (API TG6) (*Yonker*)
 - ISO 13628-3/API RP 17C – Report on ballot to reaffirm
 - D. Subsea Wellheads/Tree (API TG5) (*Frazer/Skeels*)
 - ISO Spec 13628-4 – report on progress of DIS preparation
 - E. Umbilicals (API TG4) (*McManus*)
 - ISO 13628-5/API Spec 17E - report on progress of revision
 - F. Control Systems (API TG 2) (*Neuenkirchen*)
 - ISO 13628-6/API Spec 17F – report on FDIS & Adopt-back ballots
 - G. Completion/Workover Risers (*Skeels*)
 - ISO 13628-7/API RP 17G – report on FDIS & API Adoption ballots
 - Barrier philosophy for wellbore intervention systems
 - H. ROV/ROT (API TG3) (*White*)
 - ISO 13628-8 and -9/API RP 17H and RP 17M – report on progress of NWI to combine documents into one standard
 - I. Dynamic Risers (*Stanton*)
 - ISO 16389/API RP 2RD – report on status of revision
 - J. Subsea Reliability RP (*Allen*)
 - Update on RP17N activity
 - K. HIPPS RP (*Goggans*)
 - Update on RP17O activity
 - L. Templates and Manifolds (*Whipple*)
 - Update on 17P activity
 - M. Subsea System Engineering (*tbd*)
 - Update on 17Q activity
 - N. Materials Study Group (*Haerberle*)
 - Update on activity
7. Summary of Discussions of Prior Meetings
 - Composite Suite of API/ISO subsea standards and gaps in existing standards (*Bednar/Inderberg*)
 - Report on Path Forward for Insulation and Buoyancy Spec and RP (*Given*)
8. Other Business
 - Discussion of Sunset Committees Role (*Hurta*)
 - 2006/2007 Research Funding Proposals ()
9. Review of Action Items
10. Next meetings – Winter 2007, TBA; Summer 2007, June 25-29 San Francisco, CA

ISO SC4/WG6 / API SC17 Action Items

March 3, 2006 Joint Meeting

Standard/ Subject	Action Item	Last Update	Current Status <i>(items in bold are complete)</i>
General Requirements 13628-1 (17A)	2004-14: Form a team to look at the scope of 17A/13628-1 with regard to these items and other new work topics as they relate to the composite suite of subsea standards. Some of the topics to be covered include: <ul style="list-style-type: none"> • Systems Engineering • Subsea processing • Multiphase pumping • Intelligent wells interfacing • Interaction between flowlines and subsea structures • Integrated Production Umbilical (IPUs) • Spec breaks • Existing flowline specifications and their relationship/applications to SC17 	9/30/05 – Ongoing	3/3/06 – Work session for Tuesday in Atlanta planned. Jonathan Jordan to send notice on Atlanta meeting and request input to L Souza on -1 content May 23-24 ISO Meeting planned for Paris. Olav Inderberg to send notice on Paris meeting. Olav Inderberg to follow-up on possible NWI for an RPIW interfacing
	2005-9: Leadership Team to identify candidates to replace Vince Vetter as 17A TG chair.		Jan 06 – Bruce Crager identified Luiz Sousa, Petrobras America Complete. Will be removed following next meeting
Flexible Pipe 13628-2 (17J), 13628-10 (17K), 13628-11 (17B) 17L1, 17L2 (Ancillary Equipment)	2004-6: Olav Inderberg to prepare an ISO NWI based on the 17Ls work for consideration at the June meeting.	6/29/05 - Ongoing	9/30/05 – Ongoing
	2004-18: Krassimir Doynov to forward a draft of 17Ls (when draft is deemed ready for widespread release) to be used in the ISO new work item and this should include a proposed title and how it could also include umbilicals.	9/30/05 - Ongoing	3/3/06 – Incorporating comments into draft documents

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TFL 13628-3 (17C)	No outstanding action items		
Subsea Wellheads and Trees 13628-4 (17D)	2004-16: Brian Skeels/Ross Frazer to provide a report at the next meeting on the repair/remanufacture issue.	6/29/05 - Ongoing	3/3/06 – Referred back API SC6 for action. Complete. Will be removed following next meeting
	2006-1: Resolve horizontal tree patent issue	New Action Item	3/3/06 – By end of March, Ross Frazer to provide status update and recommendation on how to proceed.
Umbilicals 13628-5 (17E)	No outstanding action items		
Control Systems 13628-6 (17F)	2005-10: Jonathan Jordan to contact John Bodine (now with Chevron) to discuss continuing role as API TG chair	10/05 Confirm J. Bodine (now w/ Chevron) to continue at TG Chair	Complete. Will be removed following next meeting
Comp./Work over Risers 13628-7 (17G)	2005-5: Brian Skeels will prepare New Work Item to form a new API task group related IWOCS with ISO participation. This will then be submitted Olav Inderberg to prepare an ISO New Work Item request before the June API meeting.	9/30/05 - Ongoing	3/3/06 - Brian Skeels to propose an approach on what systems (including IWOCS?) the TG will address and how the documents will be structured by June '06 meeting
	2006-2: TG to provide a proposal wrt barrier philosophy for wellbore interventions systems.	New Action Item	3/3/06 - Brian Skeels to provide update on barrier discussion at June '06 meeting
ROVs 13628-8 (17H) ROTs 13628-9 (17M)	2004-7: Charley White and Eric Luszi to develop an API NWI that details the path forward on combining 13628-8 and 13628-9 into one document and incorporating the additional items received in comments during the ISO ballots and the API adopt-back ballots.	12/15/05 – To be combined into a new -13 document	Complete. Will be removed following next meeting
17N (Subsea Reliability)	2006-3: Determine path forward on publication status	New Item	John Allen to confirm API and Deepstar are aligned on issue of API document. Decide on timing for initiation of ISO NWI. John Allen to provide information to Olav Inderberg for SC4/WG6 meeting in May.
HIPPS 17O	No outstanding action items		

Standard/ Subject	Action Item	Last Update	Current Status <i>(items in bold are complete)</i>
Templates and Manifolds 17P	2004-23: Olav Inderberg to initiate an ISO NWI on this subject.	9/30/05 - Ongoing	3/3/06 – Waiting on working draft prior to NWI
	2005-7: Jeff Whipple to circulate an electronic draft to 17P members for review. Olav Inderberg will send this draft to interested ISO members. Jonathan Jordan to post on API SC 17 website.	9/30/05 - Ongoing	3/3/06 - FTP site created to facilitate TG input
	2005-11: David Wilkinson to contact Jeff Whipple to check on status of 17P project.	9/30/05 - Ongoing	Complete. Will be removed following next meeting
	2006-4: Jeff Whipple and Dave Wilkinson to develop proposal requesting API funding for technical writing of draft	New Item	3/3/06 – Jonathan Jordan to send RFP form to TG Chairs.
System Engineering 17Q	2005-8: Revisit Systems Engineering in June 2005 and determine if there is a champion. All SC17 members are requested to consider who might be involved with this effort.	12/15/05 – No candidate identified	3/3/06 - Ongoing
	2006-5: Olav Inderberg to make presentation in Atlanta Meeting on Systems Engineering	New Item	3/3/06-Olav to prepare presentation
13628-12 (API RP 2RD) Dynamic Risers	No outstanding action items		
General/ Admin.	2002-23: Alf Reidar Johansen will prepare a document outlining how ISO and API will work together to ensure that the standards work is well coordinated. This document will provide guidance on how both groups should handle comments made on the various documents throughout the development/ review process.	3/3/06 - Ongoing	Complete. Will be removed following next meeting.
	2004-25: Leadership team to explore ways to get information out to industry in a more timely manner.	6/29/05 - Ongoing	3/3/06 – Verify document status sheet on API website and/or develop dedicated page. Review System Poster in Atlanta

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Permanent Discussion Items	2001-18: John Bednar, Gary Hurta, and Olav Inderberg are to look at the direction that SC17 should be pursuing relative to the composite suite of API 17 Series general and specific documents that address the broad spectrum of subsea hardware.	9/30/05 - Ongoing	3/3/06 – To be discussed at Atlanta meeting during -1 and -7 sessions.
	2003-8: SC17 Leadership Team to discuss how experiences gained when using the standards/specifications are captured and fed into future revisions.	6/29/05 - Ongoing	3/3/06 - Comments/Questions received are forwarded to TG Chair for resolution and potential action in next revision. Complete, will be removed following next meeting.
	2003-21: Maintenance of N172.	9/30/05 – Ongoing	3/3/06 - Olav Inderberg to provide update on ISO progress on developing hierarchal definition structure at June '06 Meeting.
New Work	2003-22: Brian Skeels to develop a plan for dealing with HPHT issues for subsea production system standards, addressing: - what areas should be covered in terms of equipment and procedures; - how this would best be integrated into the SC17 documents e.g. stand alone document versus HPHT Annexes in each existing document; - what else is going on in the industry in this regard e.g. API sponsorship of testing of effects of HT on material properties.	12/15/05 – Ongoing – Multi-SC Task Group is developing a tentative draft of proposed “API RP 6HP”	3/3/06: Maintain continued SC17 awareness of issue and provide input relevant to SC17
	2004-13: Dave Wilkinson, John Bednar, and Andy Radford to determine path forward for Insulation and Buoyancy standards prior to the June meeting.	1/15/06 – Mike Given, Vetco to review MCS documents and provide recommendation on TR	3/3/06 – Mike Given to provide update/recommendation at June '06 Meeting.
	2006-6: David Wilkinson to contact Andrew Wainright regarding his proposal for NWI on standardized installation reels for coiled subsea products	New Item	3/3/06 - Ongoing

API SC17 (ISO TC67/SC4/WG6), SUBCOMMITTEE ON SUBSEA PRODUCTION SYSTEMS

2006 WORK PROGRAM

Revised March 2006

BRIEF DESCRIPTION OF WORK/SCOPE	API Standard	ISO Standard	API Chair	ISO Project Leader	SC17 Leadership Team Champion	STATUS
Design and operation of subsea systems	RP 17A	13628-1	Luiz Souza, Petrobras America (TG7)	Per Dahl, Norsk Hydro	Wilkinson	Published (Jan 2006)
Flexible pipe	RP 17B	10420 Proposed as 13628-11	Krassimir Doynov, ExxonMobil (TG1)	Krassimir Doynov, ExxonMobil	Wilkinson	FDIS ballot 2 nd quarter '06.
TFL systems	RP 17C	13628-3	TBD (TG6)	TBD	Hurta	API RP17C/ISO 13628-3 published. Reaffirmation ballot passed. No action needed at this time.
Subsea wellhead and tree equipment	Spec 17D	13628-4	Ross Frazer, ATP Vice Chair: Brian Skeels, FMC (TG5)	Ross Frazer, ATP Vice Chair: Brian Skeels, FMC	Hurta	Work ongoing. Preparing for DIS submission. Resolution of patent issues in progress regarding horizontal tree issue.
Production control umbilicals	Spec 17E	13628-5	John McManus, Gibson Tube (TG4)	Ron Dee, Shell	TBD	Currently undergoing editorial checks, expect ISO DIS in 3 rd quarter '06.
Subsea controls	Spec 17F	13628-6	John Bodine, Chevron (TG2)	Jens Neuenkirken, Statoil	Bednar	ISO FDIS ballot closed March 19 (API TAG ballot March 10). API Adopt-back Ballot closed March 29.
Design & operation of completion/workover risers	RP 17G	13628-7	Brian Skeels, FMC	Anthony Muff, FMC	Hurta	FDIS ballot skipped per ISO SC4 Resolution. API adopt-back ballot passed. To be published.
ROV interfaces	RP 17H	13628-8	Charles White, DORIS, Inc (TG3)	Eric Luszi, Statoil	Hurta	ISO 13628-8/API 17H published. NWI passed to combine with 13628-9 to become 13628-13.
Unbonded flexible pipe	Spec 17J	13628-2	Krassimir Doynov, Exxon Mobil (TG1)	Krassimir Doynov, Exxon Mobil	Wilkinson	ISO DIS comments resolved. FDIS scheduled for 2Q06.
Bonded flexible pipe	Spec 17K	13628-10	Krassimir Doynov, ExxonMobil (TG1)	Krassimir Doynov, Exxon Mobil	Wilkinson	Second Ed Published Nov 2005.

BRIEF DESCRIPTION OF WORK/SCOPE	API Standard	ISO Standard	API Chair	ISO Project Leader	SC17 Leadership Team Champion	STATUS
Flexible Pipe Ancillary Equipment (Spec)	Spec 17L1	TBD	Krassimir Doynov, ExxonMobil (TG1)	Krassimir Doynov, Exxon Mobil	Wilkinson	Incorporating comments in working draft.
Flexible Pipe Ancillary Equipment (RP)	RP 17L2	TBD	Krassimir Doynov, ExxonMobil (TG1)	Krassimir Doynov, Exxon Mobil	Wilkinson	Incorporating comments in working draft.
ROT Intervention System	RP 17M	13628-9	Charley White, DORIS Inc.	Eric Luszi, Statoil	TBD	NWI passed to combine with 13628-8 to become 13628-13.
Dynamic Risers	RP2RD	13628-12	Paul Stanton, Technip	Paul Stanton, Technip	Bednar	Working draft being prepared.
Subsea Reliability	RP 17N	TBD	John Allen, Vetco-Grey	Olav Inderberg, FMC	TBD	Working draft being prepared.
HIPPS	17O	TBD	Tim Goggans, FMC	Tim Goggans, FMC	Bednar	Document ready for TG review.
Templates and Manifolds	17P	TBD	Jeff Whipple, Intec	TBD	Wilkinson	Working draft being prepared.
Systems Engineering	17Q	TBD	(-TBD-)	Olav Inderberg, FMC	Wilkinson	Decision on continuing this project is pending discussion at next meeting.
Materials Study Group	n/a	annexes to existing	Tim Haeberle, Vetco-Grey	Ragnar Mollan, Norsk Hydro	Inderberg	Generating annex materials for 17A (-1) and 17P