MINUTES
API Subcommittee 17 (SC17)
Subsea Production Equipment
2020 Winter Committee Meeting
Wood Group: Houston Tx.
Tuesday, January 14, 2020

Jeff Jones, Chairman
Ray Stawaisz, Co-Chair
Brian Skeels, (Co) Vice-Chairman Andrew Grohmann, Liaison - Materials
Ross Frazer, (Co) Vice-Chairman André Maerli, Liaison - API International Standards
Man Pham, (Co) Vice-Chairman Craig Smith, Secretary

1. Meeting Opening/Safety Issues:
   SC17 Chairman welcomed the Subcommittee members and attendees to the meeting at 8:00 AM with opening remarks and safety overview.

2. Adoption of Proposed Agenda for API Winter 2020 Meeting:
   Motion was made and seconded to approve. Motion passed.

3. Attendance and Rosters - Roll call of attendees/rosters.
   a. API Antitrust Reminder Guidelines slide was reviewed.

   b. A roll call was completed and confirmed that there was a quorum of 21 present for this meeting (a minimum of 15 is required)

   c. Review of SC17 Membership details list (address, phone number), any corrections to the list was requested

   d. The updated SC17 Voting Representation Listing was presented (Attachment 01)

   e. The API Work Group Leads Contact List was presented (Attachment 02)

4. Adoption of minutes from API Summer 2019 [New Orleans]: Motion was made and seconded to approved. One Typo was noticed on the API 17TR14 update. An incorrect reference was made to 17TR1 instead of 17TR14. Motion passed.

5. Summary Status of Work - Work Matrix Review. The Subcommittee 17 Standards Status Matrix (Attachment 03) was reviewed. Document available on the API committees’ website.

6. SC18 Liaison Update:
   - The liaison report was given by the Mohsen Shavandi (Attachment 04)
   - API staff also discussed the Addendum to 17D related to reference to 6A 20th ed. He cautioned people to be aware of the API 6A 21st ed. and its substantial changes to raw material
7. Task Group (TG) / Project Lead Reports

a) API 17A: Subsea Production Systems
   • The Task Group update was given by the chair (Attachment 05)
   • Next revision will focus on Systems Engineering and Emerging Technology
   • No Outstanding Actions

b) Flexible Pipe Specifications
   • The TG report was provided by the chair (Attachment 06)

   API 17B: Recommended practice for flexible pipe
   • Revision will kick off in Q2.
   • No Outstanding Actions

   API 17J: Specification for Unbonded Flexible Pipe
   • Revision will kick off in Q2.
   • No Outstanding Actions

   API 17K: Specification for Bonded Flexible Pipe
   • No outstanding actions

   API 17L1: Specification for flexible pipe ancillary equipment
   • Final comment resolution to be completed by end of Q1 and then submit for Ballot.
     Expected to publish by year end.
   • No outstanding actions

   API 17L2: Recommended practice for flexible pipe ancillary equipment
   • Final comment resolution to be completed by end of Q1 and then submit for Ballot.
     Expected to publish by year end.
   • No outstanding actions

   API 17TR2: The Aging of PA-11in Flexible Pipe
   • Expect to Submit SRRR in 2020 for revision
   • No outstanding actions.

c) API 17D: Subsea Production System
   • The TG report was given by the chair (Attachment 07 and 07A).
   • Ballot draft closes Feb. 9th.
   • One action related to requesting a 1 year effective date is still ongoing.

d) API 17E: Subsea Umbilical
   • The TG report was given by the chair (Attachment 08).
   • Task Group is looking several changes /updates to the document. Consideration will
     be given to incorporating 17TR8 and 17TR9 into update and then withdrawing those
     TR's
   • Consideration of changing this to a Standard will be given.

Action: Chair to submit SSSR requesting approval to update to 6th ed
e) API 17F: Subsea Production Control Systems
   • The TG report was given by John Allen on behalf of the TG chair. (Attachment 09).
   • Next revision will consider adding All Electric and Wireless Communication details.

Action: Chair to submit SSSR requesting approval to update to 5th ed.

f) API 17G Series for Subsea Well Intervention Systems
   • The TG overview summary for all 17G series of documents [except 17G1] were given by the TG chair of 17G (Attachment 10 and 10A).

API 17G: Std for Design and Manufacture of Subsea Well Intervention Systems
   • Document has been published.
   • No outstanding actions.

API 17G1: System Configuration and Operation of Subsea Well Intervention Systems
   • The TG report was given by the chair (Attachment 11).
   • Workgroups formed and Kick off for recommencement of activities is eminent. Will align with 17G and perform comment resolution of old ballot. Target Q4 for task group review.
   • No Outstanding Actions

API 17G2 - Subsea Pumping Well Intervention Systems.
   • Workgroups formed. Targeting draft review by Integration Team in Q2.
   • No outstanding actions.

API 17G3 – Subsea Well Intervention Systems using Non-Ferrous Alloys.
   • Estimated Submission for Ballot is Q2.
   • No outstanding actions.

API 17G4: Riserless Subsea Well Intervention Systems.
   • Work is progressing well. Expected issue for Ballot in Q4.
   • No outstanding actions.

API 17G5: Intervention Work Over Control System (IWOCS)
   • Document has been published
   • No outstanding actions.

API 17H: ROV Tools and Interfaces
   • The TG report was given by the TG chair (Attachment 12 and Attachment 12A).
   • Document was published in July 2019.
   • No outstanding actions.

API 17N: Subsea Reliability
   • The TG report was given by the TG chair (Attachment 13).
   • Will coordinate future revision with 17Q to prevent overlaps/gaps.
   • Future focus on Digitalization, Software, New Technology (Additive Manufacturing)
   • No outstanding actions
i) API 17O: HIPPS
   - The TG report was given by John Allen on behalf of the TG chair (Attachment 14).
   - No current activity.
   - No outstanding actions.

j) API 17P: Subsea Structures and Manifolds
   - The TG report was given by the TG chair (Attachment 15 and Attachment 15A).
   - No current activity.
   - No outstanding actions.

k) API 17Q: Subsea Qualification (Attachment 16)
   - The TG report was given by the TG chair.
   - Approval for the addendum was submitted at the last meeting. Addendum will address
     the missing data sheets form the 1st edition. The addendum should be ready by Q2
   - No outstanding actions.

l) API 17R: Flowline Connections
   - The TG report was given by the TG chair (Attachment 17 and Attachment 17A).
   - Task group has approx. a dozen comments to address. Volunteers are needed.
   - Consideration for inclusion of small-bore connectors will be given. If so new SSSR
     will be required.
   - No Outstanding actions

m) API 17S: Subsea Metering.
   - TG update was provided by Ed Baniak on behalf of the TG chair. (Attachment 18)
   - A high level review has been completed and a revision will be needed.
   - The document is under revision.

n) API 17U: Wet and Dry Thermal Insulation of Subsea Flowlines and Equipment
   - The TG report was given by Ed Baniak on behalf of the TG chair (Attachment 19)
   - Chair is looking for participants
   - Action from Winter 2019 meeting is still open

   Action: Andrew Grohmann to contact Chair to determine future for document (Reaffirm, Withdraw or 2year extension)

o) API 17V: Subsea Safety
   - The TG report was given by John Allen on behalf of the TG chair (Attachment 20)
   - No activity.
   - Document expected to the reaffirmed at the summer meeting.

p) API 17W: Capping Stack
   - The TG report was given by the TG chair (Attachment 21).
   - Workgroup has been formed and work is in progress.

q) API 17X: Recommended Practice on Subsea Pumping Systems
   - The TG report was given by TG chair (Attachment 22 and Attachment 22A).
   - Document expected to go to for a 3rd Ballot in Q1.
   - No outstanding actions.
r) API 17Y: Chemical Injections
   • The Task Group report was given by Roy Chan on behalf of the TG chair (Attachment 23)
   • A full re-ballot will be required (expected Q2) after comment resolution from the 1st ballot.

Action: Man Pham to contact Chair to revisit scope and address Tim Dean’s concerns before going to Ballot

s) API 17Z: Medium Voltage Equipment
   • The TG report was given by TG chair (Attachment 24 and 24A).
   • Work is now kicking off.
   • No outstanding actions.

t) API 17TR14: Global Riser Analysis
   • Document is in development.
   • No outstanding actions.

8. Old and New business:
   • Old business:
     • Actions Update related to Flange loads in 17D for normal, extreme and severe conditions and Tolerance review of gaskets to ensure face to face contact: Craig Smith to work with Ray Stawaisz and creat SSR’s for consideration at Summer meeting.
   • New Business:
     • New Proposal for Subsea Leak Detection: Will be presented at Roundtable
     • Action: Phil Potter (BHGE) and Dave Wilkinson (Exxon) to present color-coding proposal for fittings at Summer Conference

9. Upcoming Meetings:

10. The meeting adjourned at noon.