API SC 10, Work Group 3 Update:
Revision of 10B-4, Recommended Practice on
Preparation and Testing of Foamed Cement Slurries
at Atmospheric Pressure

Sub-Committee 10, WG -3
June 2015, San Francisco
Agenda:

1. Review minutes from Winter Session
2. Revisit WG Charge
3. Update on progress since the Winter Session
   i. RP 10B-4 document status
   ii. API TR document status
   iii. Update on NETL work:
4. Discuss plan ahead (July 22nd 10:00 AM – 3:00PM ?)
5. Adjourn
WG-3 on Revision of API RP 10B-4 Meeting Minutes

In session 09:00, Jan 28, 2015

Agenda for the meeting was presented:
- Revisit work group charge
- Review minutes from summer session
- Update on Progress since summer session
- Adjourn

Matthew Goodine reviewed the WG charge, and scope of Phase 1 and Phase 2.

Matthew Goodine reviewed the minutes from the summer session; meeting minutes were accepted by the committee (Glen Benge moved to accept minutes, Gunnar DeBruijn 2nd Comments on 10B-4).
The update to 10B-4 was provided:
- Ballot results and comment summary received June 6, 2014.
  o Response rate 60%
  o Approval rate 100%
  o Consensus: YES
- 222 comments received 42 “technical” comments. All technical comments were re-classified as “editorial”.
- Resolutions to comments were proposed and accepted by the commenters.
- Comment from Glen Benge, that the voting is completed, so no changes in voting are necessary.
- Ben Coco will circulate the document shortly following the conference.
Winter Session Meeting Minutes (continued)

An update on the Technical Report draft was given.
There was a working session held on November 5, 2014:

- Reviewed progress and input received since last meeting.
- Discuss and agree plan ahead with TR with section owners to simplify content.
- Discussed NETL Continued Work Scope (plan ahead).
- Conduct working session on draft document content to finalize.
- Adjourn.
- Persons in attendance:
  - In attendance: James Heathman, Joe Maxson, Glen Benge, Charles Buford, Erick Cunningham, Woody Lawrence, Alan Parlipiano, Alex Mendiola
  - On the phone: David Stiles, Jerry Calvert

- An update on document progress since November 5th meeting:
  - Content was received form HAL and BHI on the yard test sections.
    - HAL provided an update based on the simplification plan Nov 25, 1014.
    - BHI noted they need access to the SharePoint site to complete their simplification update.
  - Plan to hold additional working session with TR team in Q1 or Q2 of 2015.
  - Chairman to send out latest working draft prior to this meeting.
Update was provided from Joe Shine

- Results of BHI yard test will be presented at a paper at OTC
- A 2nd paper will be presented on the mechanical properties of foam cement.

Gunnar provided an update to the Phase 2 work by NETL and the request for interest for JIP to further this work scope.

Meeting was adjourned at 09:18, Jan 2015; David Stiles moved to adjourn, Gerry Calvert 2nd.
Work Group Charge:

• Produce a revision of API RP 10B-4, Preparation and testing of Foamed Cement Slurries at Atmospheric Pressure to improve test methods for high pressure and/or high temperature applications

Scope Phase One:

1. Review of current apparatus and procedure for the generation of foamed cement under atmospheric pressure. Agree to retain current method, modify current method, or suggest alternate or additional test methods.
2. If required develop new procedures and verify new procedures for the evaluation of atmospherically generated foamed cement slurries
3. Redraft API RP 10B-4 with updated procedures and publish.
Phase Two Scope:

1. Develop a procedure and standard equipment to generate foamed cement slurries under elevated pressures.
2. Explore methods to evaluate impact of increased pressure and shear rate on foamed cement properties such as, bubble size distribution, foam stability, and mechanical properties of set foamed cement.
3. Describe improved test methods and procedures for generation and testing of foamed cement.

Proposed Revision of Phase Two Scope:

1. Develop procedures and implement a plan to generate foamed cement slurries utilizing field foamed cementing equipment and capture foamed cement samples under pressure for analysis.
2. Describe and perform analytical testing to evaluate the impact of utilizing laboratory, or field-based foamed cementing equipment, on foamed cement properties such as, bubble size distribution, foam stability, and mechanical properties of set foamed cement.
Update on Recommended Practice 10B-4

- Document was circulated by Ben Coco for post ballot comments
- Minimal comments (3) were received
- All comments were resolved
- Document was sent to SC-10 Editorial Task Group
- Document released from the SC-10 Editorial Task Group following editorial modifications
- Document is currently in the API Publications Queue
  - Remaining tasks to be completed:
    - Format and style check
    - Legal clearance
- Updated document will then be published
- Document should be published before the next session with a 2015 time stamp.

Thanks to everyone that has contributed to this document to this point
Update on API TR

Meeting was held April 2015 with yard test section owners: Chuck Buford, Gunnar DeBruijn and Joe Maxson. The following agenda was covered:

• Review the draft simplification effort proposed by Joe Maxson in response to November 2014 meeting
• Agree plan to complete or simplify the sections remaining 2 sections of the TR related to the field foam generation project.
• Adjourn

2015 H2 Plan ahead:
• Consolidate content has been received from Chuck and Gunnar.
• Solicit further on document from NETL on description of analytical testing methods and consolidate this into a final draft document outlining the deliverables in the revised Phase 2 scope.
• Post consolidated draft to SharePoint site for comments by Work Group.
• Circulate draft document to section owners for approval to move ahead with the standardization if writing style (D. Stiles).
• Provide draft document to SC-10.