1.0 OPENING SESSION - Tuesday, January 21, 2020

1.1 The opening session of the main committee meeting was called to order by the Chair at 10:05 AM. The sign-in sheet and roster were passed around. A brief safety moment and the API anti-trust policy was presented.

1.2 The Chair made a presentation in memory of Gene Smith, who passed away on January 1, 2020 at the age of 79 - see Attachment A. Gene was honored for his many years of service with the API Committees and within the industry.

1.3 The Chair invited everyone in the room to introduce themselves.

1.4 The Chair asked the voting members or those designated as proxies to raise their hand. There were a total of 25 voting members and proxies in attendance (out of a total of 27 possible), establishing a quorum.

1.5 The minutes of the 2019 meeting in San Antonio were approved, seconded, and passed by unanimous vote.

1.6 The agenda for the annual meeting was presented. It was noted that the Committee Awards were moved to the Closing Session on Friday, January 24, 2020 at 10:00 AM.

During discussion, several additional changes were noted in the Subcommittee/Task Group Co-Chairs, including adding Geoff Rogers as the Repair Welding Subcommittee co-chair, listing Bob Bates in lieu of Chuck Woodruff as the new Nondestructive Testing Subcommittee co-chair, and listing Justin Crapps in lieu of Rick Noecker as the new Task Group on SBECAs co-chair.

A motion was made to approve the agenda as discussed and amended. The motion was seconded and the amended agenda was unanimously approved.
1.7 API staff presented the annual update – see Attachment B. The committee voting members and officers were presented. Several changes in voting membership have occurred since the last meeting.

The term of the current officers will end in December 2020.

The results of the second ballot for the proposed Twenty-second Edition of API 1104 were presented (Ballot 4989). The comment resolution process was explained in detail to all participants.

The timelines for the development of the next edition was reviewed. The presented timelines indicated potential publication dates dependent on whether final recirculation or additional balloting is required following the comment resolution process.

1.8 Luke Ludwig (Co-Chair of the Welding Procedures & Welder Qualification Subcommittee) presented a summary of the updated qualification requirements under consideration for the Twenty-second Edition of API 1104 – see Attachment C.

It was noted that the changes under consideration are not final and the presentation may not be indicative of the published Twenty-second Edition of API 1104.

The presenter briefly answered questions from the participants. It was clarified that the definition of “essential variable” was used by the subcommittee during discussions but will not be included as a new definition in the standard.

1.9 The Chair stated that Carlo Iasella is retiring. The Chair asked that any additional old business be discussed. No additional old business was raised.

1.10 Doug Fairchild (Co-Chair of the Task Group on SBECAl presented the current status of the effort – see Attachment D. The next step is to ballot the Recommended Practice (RP) for SBECAl of Girth Welds and the associated Technical Report (TR) which addresses Single-Edge Notched Tensile (SENT) test protocol after final formatting by API.

1.11 A motion to adjorn the opening session was made, seconded, and passed by unanimous vote at approximately 11:00 AM.

2.0 CLOSING SESSION – Friday, January 24, 2020

2.1 The closing session of the main committee meeting was called to order by the Chair at 8:05 AM. The sign-in sheet and roster were passed around. A brief safety moment and the API anti-trust policy was presented.
2.2 The Chair asked the voting members or those designated as proxies to raise their hand. There were a total of 27 voting members and proxies in attendance, establishing a quorum.

2.3 Roland Goodman, who will replace Ed Baniak as the API staff-member responsible for the API 1104 committee, introduced himself. The committee welcomed him to his new role.

2.4 The Chair invited everyone in the room to introduce themselves.

2.5 Wesley Mathews, with the US Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA), presented an overview of PHMSA’s Accident Investigation Division – see Attachment E.

It was additionally noted that in 60 – 90 days, PHMSA hopes to publish a Notice of Proposed Rule Making (NPRM) to adopt the Twenty-first Edition of API 1104 into the Code of Federal Regulations.

2.6 The Chair invited report-out presentations from each of the subcommittees and task groups.

Fracture Mechanics Subcommittee – Yong-Yi Wang. The subcommittee resolved all comments from the ballot. Two (2) comments were resolved with a response of “Noted” as they require additional subcommittee consideration before inclusion in the standard. The Installation ECA (reeling) task group which reports to the subcommittee presented a status report (see below).

Annex A Task Group on Installation ECA – Robin Gordon – see Attachment F. A proposed schedule for 2020 was presented with a goal to finalize the Annex by the end of the year. The committee was asked to provide the names of any individuals who are not task group members that may review the new Annex so they can be added to the distribution list as the Annex progresses.

Production Welding & General Interest Subcommittee – Tim Burns. The subcommittee addressed all the assigned ballot comments. Bill Bruce was tasked with aligning the various subcommittees on one common term for “gap,” “root opening,” and “space between abutting end” throughout the document.

In-service Welding Subcommittee – Bill Bruce – see Attachment G. The subcommittee reviewed all 31 received comments. Resolutions and specific changes were developed for all 31 comments during the meeting.

Mechanized Welding Subcommittee – Bob Huntley – see Attachment H. The subcommittee addressed all 9 ballot comments assigned to the subcommittee.
Additionally, two items in Section 12 required revision due to the outcome of the Welding Procedures & Welder Qualification Subcommittee meeting.

**Welding Procedures and Welder Qualification Subcommittee** – Robert Lazor – see [Attachment I](#). The subcommittee discussed all 59 ballot comment submitted. Three (3) items were sent to task groups for additional work, including preheat and interpass temperature clarification, revision of Table 2 for welder qualification, and use of nondestructive testing for welding procedure qualification in lieu of nick break specimens. The subcommittee plans to complete comment resolution by the end of February.

**2.7** At 9:10 AM, the attendees took a brief break and resumed the meeting at 9:25 AM. Quorum was reestablished.

**Nondestructive Testing (NDT) Subcommittee** – Dave Culbertson – see [Attachment J](#). The subcommittee discussed old business items, including a work group formed in 2018 for corrosion resistant alloy (CRA) NDT, as well as whether to allow American Welding Society (AWS) Radiographic Film Interpreters (RFI) to interpret radiographic images. The subcommittee also generated resolutions to over 100 NDT-related ballot comments.

**Radiographic Testing Task Group** – Dave Culbertson – see [Attachment K](#). The task group developed the responses to the roughly 63 radiographic-related ballot comments. The task group co-chairs commended and recognized the monumental efforts by all involved in the work group to develop and resolve the comments in an expeditious manner.

**Repair Welding Subcommittee** – Kerry Shatell – see [Attachment L](#). The majority of the meeting was spent addressing the 21 ballot comments. All 21 comments were resolved, and Geoff Rogers committed to reformatting Table 10 per the comments received from the subcommittee to resolve ballot Sort Key #3 and #4.

**Task Group on NDT for Repair and In-Service Welds** – Matt Boring – see [Attachment M](#). The task group had various discussions by the in-service welding working group and repair welding working group. Six (6) action items were created to progress the task group’s charge. The Chair approved the newly proposed Task Group co-chair, Rick Noecker, who will serve with Matt Boring, in lieu of Chuck Woodruff.

**Interpretations Task Group** – The Chair stated that the Task Group met in October 2019 to address requests for interpretation. No additional interpretation requests had been received prior to the annual meeting, so the task group reviewed the previously agreed responses.

**2.8** The Chair stated that the committee wanted to recognize several participants in an awards ceremony – see [Attachment N](#). Awards were presented by API and the
Committee on Standardization of Oilfield Equipment and Materials (CSOEM). The following awards were presented:

- Resolution of Appreciation – Melissa Gould and Ed Baniak;
- Citation for Service – Bill Bruce, Tim Burns, and David Culbertson; and
- Certificate of Service – Chuck Woodruff.

API 1104/5L Joint Work Group – Mike Childers. The work group heard a presentation by Yong-Yi Wang titled “Robust Girth Welds Suitable for Realistic Field Conditions” – see Attachment O. Additionally, the work group heard a presentation by Bill Bruce on the topic of pipeline girth weld strength matching requirements – see Attachment P. The presentation referred to a Welding Journal article of the same title – see Attachment Q, Welding Journal (October 2019), © American Welding Society.

2.9 The Chair moved on to the new business portion of the agenda. Quorum was reconfirmed.

Tim Burns was introduced as the Chair of the Nominating Task Group, responsible for nominating the Committee officers for the term beginning in January 2021. The Nominating Task Group formed included Tim Burns, Jordan Hunter, Bob Wise, and David Culbertson. It was stated that the intent of the Nominating Task Group is to ballot the current Chair and Vice Chair for a second term, with an option for a write-in candidate, in accordance with the by-laws.

A motion was made to consider working on including corrosion resistant alloys (CRA) in the standard or as a stand-alone RP. The motion was seconded and this topic was discussed. Approximately 14 participants responded that they believe the topic of solid CRA or clad carbon-steel is or will be relevant to their work. This topic was explored previously, but it is unclear if any deliverables were produced which may be useful. Olivier Jouffron and Sameer Ghalsasi volunteered to lead a new Task Group. After discussion, the motion passed with 20 affirmative, 0 negative, and 3 abstentions.

Marion Erdelen-Peppler (EPRG) made a presentation on laser beam welding of field joints – see Attachment R. The committee was asked whether laser beam welding should be considered for inclusion in a future edition of API 1104. During discussion, it was stated that historically, laser welding was not approved due to concerns related to fitup and toughness. The Vice Chair directed the committee’s attention to Annex C of API 1104 which addresses Additional/New Proposed Processes in Section C.2.6.

No additional new business was raised.

2.10 The Chair stated the details of the next winter meeting of the committee will be sent to the full roster once available.
2.11 A motion to adjourn was made, seconded, and passed by unanimous vote at 10:46 AM. The meeting was adjourned.

3.0 ATTACHMENTS
A. Presentation – In Memory of Gene Smith – Mike Childers
D. Presentation – Task Group Update: Development of an API Recommended Practice (RP) for Strain-Based ECA (SBECA) – Doug Fairchild
E. Presentation – OPS/DOT Activities Information Report – Wesley Mathews
G. Subcommittee Report – In-service Welding – Bill Bruce
H. Subcommittee Report – Mechanized Welding – Bob Huntley
J. Subcommittee Report – Nondestructive Testing – Dave Culbertson
K. Task group Report – Radiographic Testing Task Group – Dave Culbertson
L. Subcommittee Report – Repair Welding – Kerry Shatell
M. Task group Report – Task Group on NDT for Repair and In-Service Welds – Matt Boring
N. Photographs – Committee Awards
O. Presentation – Robust Girth Welds Suitable for Realistic Field Conditions – Yong-Yi Wang
P. Presentation – Girth Weld Strength Matching Requirements – Bill Bruce
R. Presentation – R&D Project Laser Beam Welding of Field Joints - Marion Erdelen-Peppler

Respectfully submitted,
Melissa Gould
Secretary
API-AGA Joint Committee on Oil and Gas Pipeline Field Welding Practices