1.0 OPENING SESSION - Tuesday, January 22, 2019

1.1 The opening session of the main committee meeting was called to order by the Chair at 10:02 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 invited everyone in the room to introduce themselves.

1.3 The Chair asked the voting members or those designated as proxies to raise their hand. There were a total of 23 voting members and proxies in attendance (out of a total of 28 possible), establishing a quorum.

1.4 A motion was made to grant a two-year administrative extension of the validity of the Twenty-first edition of API 1104. The motion was seconded, and the administrative extension was unanimously approved.

1.5 The minutes of the 2018 meeting in San Antonio were approved, seconded, and passed by unanimous vote.

1.6 The agenda for the annual meeting was presented. A motion was made to approve the agenda. The motion was seconded, and the agenda was unanimously approved.

1.7 API staff presented the annual update – see Attachment A. The function of the Interpretations Task Group (ITG) was presented. Interpretation requests for both the Twentieth and Twenty-First Editions of the standard are currently being addressed and compiled.

The committee voting members and officers were presented. No changes in voting membership or officers have occurred since the last meeting.

The results of the first ballot for the proposed Twenty-second Edition of API 1104 were presented (Ballot 4676). The comment resolution process was explained in detail to all participants.
The timeline for the development of the next edition was reviewed. The presented timeline indicated dates for comment resolution, integration of changes, second balloting, and final comment resolution to meet the proposed publication deadline of December 2019.

1.8 A presentation was given the digitalization of weld quality inspection and weld procedures to reduce rework and on new nondestructive material strength and toughness testing methods.

1.9 The Secretary asked the subcommittee and task group co-chairs to stand as they were introduced.

1.10 Melissa Gould briefly discussed the continued development of the Twenty-second Edition — see Attachment B. The subcommittees were asked to focus on “technical” and “general” comment resolution during the meeting.

1.11 The Chair asked that any old business be discussed. No old business was raised.

1.12 A motion to adjourn the opening session was made, seconded, and passed by unanimous vote at 11:59 AM.

2.0 CLOSING SESSION – Friday, January 25, 2019

2.1 The closing session of the main committee meeting was called to order by the Chair at 8:06 AM. The sign-in sheet and roster were passed around. A brief safety moment and the API anti-trust policy was presented.

2.2 A roll-call of all voting members was performed. There were a total of 24 voting members and proxies in attendance, establishing a quorum.

2.3 The Chair yielded the floor to Doug Fairchild, the Chair of the Strain-based Engineering Critical Assessment (SBECA) Task Group (TG). A brief status update of the SBECA TG was provided – see Attachment C. Two items were noted. First, additional TG comments were received in early 2018 and were subsequently incorporated into the draft SBECA document. Second, the TG decided that the document would be better suited for initial publication as an API Recommended Practice (RP) instead of an API 1104 Annex. As a result of this decision, the document was re-drafted as an RP. This draft was reviewed at a TG meeting on January 17; a few additional comments were received, and these suggestions are being incorporated.

A motion was made and seconded to change the SBECA task group document to a stand-alone RP. Discussion occurred regarding the cross-reference of API 1104 and the new RP. Additionally, it was discussed that this procedural change would dissolve the original TG
under the Fracture Mechanics subcommittee and form a new TG under the main committee. While these formalities were necessary to place the newly proposed RP under the proper governance, the TG would be comprised of the same volunteers. After discussion, the motion passed with 1 abstention and all other votes in favor.

The Task Group Chair requested that the committee provide approval to ballot the SBECA document, once finalized. A motion was made and seconded. A discussion occurred on the proper mechanics of document approval. It was explained that the document would be balloted to the main committee and voting members, the same way in which API 1104 is balloted. As the task group document was previously voted to become a new RP, the work product was determined to not require formal approval from the Fracture Mechanics subcommittee. After discussion, the motion to ballot the SBECA document as a stand-alone RP once completed was passed by unanimous vote.

2.4 Ken Lee, previously with the US Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA), provided an informal presentation in lieu of the typical DOT PHMSA report. Due to the federal government shutdown, a PHMSA representative was unable to attend the meeting.


The Chair of the API 5L Committee, stated that the API monogram program requires pipe mills to meet the current edition of API 5L. The API 5L Committee may petition DOT PHMSA for a Stay of Enforcement to allow the use of line pipe meeting the 46th edition.

2.5 The Chair stated that the committee wanted to recognize two of the committee participants. The Secretary recognized Doug Fairchild who was named an Ohio State University College of Engineering Exceptional Alumni – see Attachment D. The Chair recognized the contributions of Ken Lee during his time at DOT PHMSA, and his continued support of the committee.

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

Fracture Mechanics Subcommittee – Yong-Yi Wang – see Attachment E. The subcommittee resolved the 25 comments from the ballot and one (1) item from the Interpretation Task Group meeting. The subcommittee also discussed and proposed modifications to the Twenty-second Edition of Annex A for a new item that was not raised by balloting or interpretation requests, as well as an item that was missed during drafting of the ballot document. A brief summary of a joint session between the Fracture
Mechanics subcommittee and the NDT subcommittee was presented. Finally, 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, also, Attachment E. The task group decided to proceed with a less detailed approach for the proposed annex to API 1104. A proposed schedule for 2019 was presented with plans to meet every three (3) months. The schedule concludes after the fourth meeting in which the annex will be reviewed by the Fracture Mechanics subcommittee and, if approved, released to the Main Committee for review.

Production Welding & General Interest Subcommittee – Tim Burns – see Attachment F. The subcommittee addressed all the assigned ballot comments. The subcommittee will send the resolved comments and proposed wording to other subcommittee co-chairs, as some responses require further validation prior to incorporation into the next ballot document, especially changes to definitions.

In-service Welding Subcommittee – Bill Bruce – see Attachment G. The subcommittee reviewed all 76 received comments. The comments were addressed by developing a resolution or by creating a work group; six (6) work groups were created and the leader was identified. The work groups will meet to propose resolutions to the subcommittee for incorporation into the next ballot document.

Mechanized Welding Subcommittee – Bob Huntley – see Attachment H. The subcommittee was able to address 46 of the 88 ballot comments assigned to the subcommittee. A conference call is planned to address the remaining 42 ballot comments.

Welding Procedures and Welder Qualification Subcommittee – Robert Lazor – see Attachment I. Prior to the annual meeting, extensive work was performed by the subcommittee co-chairs and members to propose initial resolutions and focus the meeting ballot comments which required subcommittee discussion. All comments classified by the co-chairs as technical, general/technical, and technical/editorial were addressed. The remaining comments (editorial, general, and “blank”) will be addressed via conference call. The subcommittee plans to complete comment resolution by the end of February.

2.7 At 9:50 AM, the attendees took a brief break and resumed the meeting at 10:10 AM.

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.
These items will be addressed in future work. The subcommittee also discussed and approved the recent applicable interpretations and generated resolutions to the 217 NDT-related ballot comments.

Radiographic Testing Task Group – Dave Culbertson – see Attachment K. The task group developed the responses to radiographic-related ballot comments. The work group chairs, Steve Mims (responsible for Section 9.3) and Kyle Lee (responsible for Section 11.1), led this effort, and their work was recognized and appreciated by the subcommittee and Main Committee. The proposed responses will be submitted to the task group chairs for balloting within the task group before being sent to the NDT subcommittee co-chairs.

Task Group on NDT for Repair and In-Service Welds – Chuck Woodruff – see Attachment L. The task group will continue its efforts with the support of several owner company representatives who expressed interest in participation during the meeting.

Repair Welding Subcommittee – Geoff Rogers – see Attachment M. The subcommittee reviewed a request for interpretation related to repair welding. The majority of the meeting was spent addressing technical ballot comments. Several technical comments require additional discussion before resolutions can be proposed. The subcommittee will continue to address the remaining 74 editorial, general, and uncategorized comments in a future conference call. Comment resolution by the subcommittee is planned to be completed by the end of March.

API 1104/5L Joint Work Group – Tim Burns – see Attachment N. The work group heard a presentation by Yong-Yi Wang titled “Girth Welding in the Age of Evolving Steel Manufacturing Processes and Under Realistic Field Conditions” – see Attachment O. The work group stated that a new recommended practice (RP) could be written to address weldability and heat affected zone (HAZ) softening.

A brief discussion occurred in which various documents were identified which could be used as a basis for a weldability RP, including the annex in API 5L on high strain applications, and the SBECA RP which will be balloted to the API 1104 committee in the future. Participants were reminded that many of the failures discussed in the presentation were not associated with strain-based designs.

Interpretations Task Group – The Chair stated that 22 interpretations were recently completed by the task group. The completed interpretations were approved by the task group by unanimous vote and were sent to API for distribution. The interpretations were previously approved by API Legal.

2.8 The Chair moved on to the new business portion of the agenda.
A participant proposed having white boards or a second screen available in the meeting rooms next year to allow for increased logistical ease. An additional recommendation was made to webcast or record the annual meeting sessions for those who are unable to attend. API Staff stated that a phone line can be provided for the meetings. However, any webcast software or additional projectors will likely need to be provided by meeting participants.

The Vice Chair stated that the extension of the meeting schedule to conclude on Friday worked well and should be continued in subsequent meetings. A suggestion was made to extend the lunch break to 90 minutes.

The Secretary asked the participants to identify themselves if they may retire before the 2020 Annual Meeting. The Chair thanked Bill Amend and Doug Fairchild for their work on behalf of the committee and their contribution over the years.

A participant asked for the re-balloting process to be explained again. API Staff explained the re-ballot process and Slide 31 of Attachment A was shown to the participants again. During re-balloting, a clean and “tracked changes” version of the ballot document as well as the comment resolution spreadsheet will be distributed.

Subcommittees were requested to provide their proposed revisions and comment resolution spreadsheets to the Editorial Task Group by March 31, 2019 (Action Item 2019-1).

The Chair of the API 5L Committee asked the API Staff if there was an update on the incorporation by reference of new API standards, such as API 1104 and API 5L, by DOT PHMSA. API Staff stated that DOT PHMSA will not review draft editions of standards, so the Twenty-second Edition of API 1104 will not be considered for incorporation by reference until it is published. The Chair of the API 5L Committee stated that the Committee is considering submitting a Stay of Enforcement to DOT PHMSA to relieve the requirement for operators to use the 45th Edition of API 5L once the API monogram program requires manufacture of line pipe to the 46th Edition of API 5L.

2.9 The Chair stated the details of the next winter meeting of the committee will be sent to the full roster once available. The main committee will not have a mid-year meeting, but any subcommittees or task groups that plan to meet in Houston should contact API Staff if the API facilities are required.

2.10 A motion to adjourn was made, seconded, and passed by unanimous vote at 11:07 AM. The meeting was adjorned.

3.0 2019 ACTION ITEMS
Action Item 2019-1 – Subcommittee co-chairs to provide proposed revisions and ballot resolution spreadsheets to the Editorial Task Group for inclusion in the ballot by March 31, 2019.

4.0 ATTACHMENTS
B. Presentation – Continued Development of Twenty-second Edition – Melissa Gould
C. Task Group Report – Strain-based ECA – Doug Fairchild
D. Presentation – Doug Fairchild – The Ohio State University Exceptional Alumni
F. Subcommittee Report – Production Welding & General Interest – Tim Burns
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. Task group Report – Task Group on NDT for Repair and In-Service Welds – Chuck Woodruff
M. Subcommittee Report – Repair Welding – Geoff Rogers
N. Work Group Report – API 1104/5L – Tim Burns
O. Presentation - Girth Welding in the Age of Evolving Steel Manufacturing Processes and Under Realistic Field Conditions – Yong-Yi Wang

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