**via posting**

**TO: Board Digital Committee:** Dick Brooks, Jim Buccigross, Cade Burks, Valerie Crockett, Michael Desselle, Steven McCord, Annie McIntyre, Joelle Ogg, Randy Parker, Emil Pena, Timothy Simon, Leigh Spangler, Terry Thorn, Sue Tierney, Pat Wood

**FROM:** Jonathan Booe, Executive Vice President & CAO, NAESB

**RE:** Notes from the NAESB Board Digital Committee Organizational Conference Call – May 14, 2019

Dear Digital Committee Members,

A Board Digital Committee conference call was held on May 14, 2019. The meeting was called to order at 1:00 PM Central. Mr. Desselle and Mr. Burks presided over the meeting. The notes and attachments below serve as a record of the meeting.

| **Notes from the May 14, 2019 NAESB Board Digital Committee Conference Call** | |
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| **Administrative** | Mr. Desselle welcomed the committee members to the conference call and provided the antitrust and meeting policy guidance. He called the roll of the Digital Committee and quorum was established. The agenda for the meeting was adopted by consensus. |
| **Review Results of the April 11, 2019 Board of Directors Meeting & Purpose of Committee** | Mr. Desselle thanked the committee members for their willingness to participate and reviewed the discussions during the December 13, 2019 and April 11, 2019 Board of Directors meetings, which led to the creation of the committee. He stated the committee had been formed to provide assistance to the Board of Directors by (a) annually surveying the energy markets to identify new digital technologies being deployed by market participants, (b) appraising whether standardization in support of the new digital technologies would be beneficial to the industry, and (c) submitting any recommendations concerning potential standards to the organization for consideration. Mr. Desselle noted that the he and Mr. Burks would serve as Chair and Vice Chair of the committee, because their role as Officers of NAESB uniquely qualifies them to speak on behalf of the committee and the organization as a whole. |
| **Discussion on Committee Deliverables** | Mr. Desselle proposed that the committee members work with the NAESB staff to develop a report, in a similar format to other board committee reports, that identifies and provides information on specific technologies being widely deployed in the gas and electric markets. He recommended that the report be delivered at the September Board of Directors meeting, in conjunction with the NAESB Strategic Session. The participants supported his recommendation |
| **Initial Discussions on Digital Technology Areas for Consideration** | Mr. Desselle asked the participants to recommend areas of digital technology that they believe the committee should explore as part of the report to the Board of Directors. The participants offered suggestions and discussed each as a group. Specifically, the following areas for further discussion were identified:   1. Distributed ledger technology (some standards efforts already underway at NAESB) 2. Cybersecurity – very broad and pervasive throughout all areas, but will be further refined 3. Cloud computing –hosting, data processing, data transit and data storage requirements 4. Deployable shareware 5. 5G technologies and implementation 6. Energy usage data – how it is managed, provided and the privacy issues attached 7. Data governance requirements – Everything may be 8. Distributed Energy Resources – focused on communication protocols 9. Renewable energy certificate/credit tracking and related data. 10. Internet of Things 11. Data analytics   Mr. Burks provided a summary of the status of the distributed ledger technology standards development currently underway in the wholesale and retail gas and electric quadrants and discussed how important education was in initiating the work. The participants also noted that all of the technology areas would need to be evaluated as they relate to the existing NAESB standards in addition to possible areas for new standards development. To avoid duplicative efforts, a recommendation was made to contact other organizations considering digital technology standards development, possibly through a survey. The participants agreed to refrain from such outreach until recommendations concerning standards development have been identified. It was also noted that there may be new or unresolved policy issues that must be resolved in some of the digital technology areas identified. Mr. Booe provided an update of the activities underway by NAESB staff and Mr. Desselle to support NERC efforts concerning supply chain risk management and certification. Mr. McCord and Ms. Van Pelt stated that any digital technology standards development pursued should be first justified with a business purpose. Mr. Pena noted that a majority of the digital technology identified by the group is cross-cutting beyond the energy industry. |
| **Plan for Future Meetings** | Ms. McQuade stated that the NAESB office will work with the committee chairs to schedule the next meeting. She stated that staff will also reach out to some committee members individually at the recommendation of the Chairs to support the development of a report outline to be discussed during the next meeting. |
| **Other Business** | No other business was discussed. |
| **Adjourn** | The meeting adjourned at 1:54 PM Central |
| **Work Papers Provided for the Meeting** | * **Agenda Item 1** – Administrative:   <http://www.naesb.org/misc/antitrust_guidance.doc> (antitrust)  <https://www.naesb.org/pdf4/board_digital_members.pdf> (roster)   * **Agenda Item** **2** – Correspondence from M. Desselle Concerning Committee Formation: <https://www.naesb.org//pdf4/bd041119w1.docx>; Board Digital Committee Mission Statement: <https://www.naesb.org/pdf4/board_digital_mission.pdf> |

| **NAESB Board Digital Committee Conference Call Attendance** | |
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| **Name** | **Organization** |
| Dick Brooks | Reliable Energy Analytics |
| Jim Buccigross | 8760, Inc. |
| J. Cade Burks | Big Data Energy Services |
| Valerie Crockett | Tennessee Valley Authority |
| Michael Desselle | Southwest Power Pool |
| Steven McCord | TransCanada Pipelines Limited |
| Annie McIntyre | Ardua Strategies Inc. |
| Joelle Ogg | DC Energy |
| Emil Pena | EPII |
| Leigh Spangler | Latitude Technologies LLC |
| Terence (Terry) Thorn | JKM Energy & Environmental Consulting |
| Sue Tierney | Analysis Group, Inc. |
| Pat Wood III | Wood3 Resources |
| **Other Attendance** | |
| **Name** | **Organization** |
| Rakesh Agrawal | Blackstone Technology Group |
| Jonathan Booe | NAESB |
| Pete Connor | Representing American Gas Association |
| Debbie Curry | Southwest Power Pool |
| Jerry Dempsey | OATI |
| Rob Engelhardt | Alliance Pipeline |
| Somal Goyal | Adjoint, Inc. |
| Lisa Goth | Boardwalk Pipeline Partners |
| Ronnie Hensley | Southern Star Central Gas Pipeline |
| Marcy McCain | Enbridge |
| Rae McQuade | NAESB |
| Sylvia Munson | 44 Farris |
| Denise Rager | NAESB |
| Mark Stultz | EVC Insights, LLC |
| Caroline Trum | NAESB |
| Kim Van Pelt | Boardwalk Pipeline Partners |