**via posting**

**TO:** NAESB Gas-Electric Harmonization (GEH) Forum Participants and Interested Industry Parties

**FROM:** Jonathan Booe, NAESB

**RE:** Notes from theNAESB Gas-Electric Harmonization Forum Meeting in Houston, TX – February 18-19, 2016

**DATE:** February 26, 2016

Dear Gas-Electric Harmonization Forum Participants,

A Gas-Electric Harmonization (GEH) Forum meeting was held on February 18-19, 2016. The meeting was called to order at 8:30 am Central on February 18, 2016. Ms. Tierney and Mr. Thorn presided over the meeting. The notes and attachments below serve as a record for the meeting.

| **Notes from the February 18-19, 2016 NAESB Gas-Electric Harmonization Forum Meeting** |
| --- |
| **Administrative:** | Ms. McQuade welcomed the participants to the meeting and thanked everyone in the room and on the phone for their attendance. She thanked Mr. Thorn and Ms. Tierney for facilitating the meeting and offered them an opportunity to provide opening remarks. Mr. Booe provided the antitrust and meeting policy guidance. Ms. McQuade reviewed the draft agenda with the participants. Mr. Lander moved to adopt the agenda as posted and Mr. Peress seconded the motion. Mr. Schoene objected to the adoption of the agenda as posted. He stated that three of the presentations included in the agenda are outside of the scope of the effort as defined by the Board of Directors. Several participants stated that determining whether any of the presentations are out of scope is premature, as the presenters have not had a chance to provide context for their presentations. Mr. Schoene stated that he would like to note his objection for the record, but did not want to obstruct progress of the group. The motion to adopt the agenda passed with the noted objection.Next, Mr. Booe reviewed the notes from the January 25, 2016 conference call with the participants. Ms. D. Davis stated that the agenda references minutes rather than notes. Mr. Booe stated that the discussion from previous forum meetings has been captured through high-level notes rather than detailed minutes, as all of the meetings are transcribed. He stated that next agenda will reference notes rather than minutes. Ms. Metz noted a grammatical correction to the notes. Mr. Lander moved to adopt the notes as revised and Ms. Crockett seconded the motion. The motion passed without opposition. The corrected notes can be found through the following hyperlink: <https://naesb.org/pdf4/geh012516notes.docx>.  |
| **Review of Process** | Ms. McQuade provided a summary of the process the forum will employ to create a report to be considered by the Board of Directors during the April 7, 2016 meeting. Mr. Booe reviewed the activities of the Federal Energy Regulatory Commission (FERC or Commission) and the NAESB Board of Directors to date related to FERC Order No. 809 that serves as the foundation for the forum’s planned activities. The participants asked for confirmation that the forum will not vote on a recommendation to be submitted to the Board of Directors. Mr. Thorn confirmed that the forum will not vote on any recommendations and noted that the purpose of the meetings is to explore the issues surrounding interest in expediting the nomination process and to review specific suggestions to change it. The end goal is to create a robust report that will inform the decision of the Board of Directors concerning the direction that the organization will take in response to the request of the Commission in the Order. Mr. Thorn and Ms. Tierney again thanked the speakers for their contributions and noted that the presentations and the discussion provided will form the basis for the GEH Forum meetings in March and the report that is forwarded to the NAESB Board of Directors. |
| **Presentations** | The following notes include links to the individual presentations made during the meeting and a high-level summary of the key points from the presentation and the subsequent question and answer period. If you would like to purchase a transcript of the meeting, please contact the NAESB office for instructions. To supplement these notes, ideas and opinions captured on the white board during the discussions can be found through the following hyperlink: <https://www.naesb.org/pdf4/geh021816a1.docx> 1. NAESB WGQ Pipeline Segment: The presentation from the pipeline segment can be found through the following hyperlink: <https://www.naesb.org/pdf4/geh021816w1.pdf>. The presentation and following discussion focused on the automated and manual scheduling activities of pipelines between the nomination and confirmation process and the many variables that impact how scheduled quantities are determined. Specifically, the participants discussed the degree of automation currently used in the nomination and confirmation processes. It was noted that degree of automation varies by pipeline, but the majority of pipelines have a mix of automated and manual activities some of which require no human interaction at all. None of the participants could identify a pipeline with a fully automated system, and several participants stated that allowing transmission operators the opportunity to review system operations often allows for a more efficient use of available capacity than would a fully automated system. These efforts were characterized as the “art of scheduling.” Regarding a new national standard for automation processes, it was recognized that some processes may be easier to automate than others, but that there are no “one-size-fits-all” solutions as every pipeline is unique and implementation costs would vary by system. Additionally, it was noted that not all shippers are regulated by FERC, and that some existing system processes are proprietary. Pipeline representatives stated that their companies are constantly undertaking efforts to improve the efficiency of their intraday processes that account for roughly 10% to 20% of some pipeline’s nominations, but that it is not done on an industry wide basis. Representatives from Local Distribution Companies (LDCs) also noted the importance of scheduling flexibility to support their LDC customers, some of which are also power generators. The level of automation of LDC processes, like pipelines, often depends on the size of the individual company. The participants also discussed how the costs of best efforts services, apart from no-notice or hourly services, are absorbed by the pipeline companies and whether those costs should be attributed to the customer. It was noted that the no-notice services and hourly services are available on some pipelines for firm customers, but that those services can be expensive and are part of the rate design. It was also noted that non-ratable supplies are often supplied with the line pack when operationally feasible, and that the processes for such services are typically completely manual, as are most evening and weekend nominations.
2. PJM: The presentation from the PJM can be found through the following hyperlink: <https://www.naesb.org/pdf4/geh021816w2.pdf> . The presentation and discussion focused on PJM’s current and future coordination efforts and how the 2014 winter peak impacted their system. The participants discussed the extent of automation utilized in the electric scheduling processes, and noted that while it is highly automated, there are still manual processes in place that serve as check points. Representatives from the ISO/RTO market noted that they, like those in the gas market, have to deal with system constraints and that they have a curtailment process in place that is almost fully automated, but recognized that it is difficult to compare the two commodities. It was stated that the greater scheduling opportunities and faster processing times would be beneficial from an electric perspective, but it is difficult to determine which would be most helpful – faster processing times or more nomination cycles. The participants discussed whether the issue in the PJM market during the 2014 winter was related to the number of opportunities to nominate gas for generators or if it was a pipeline capacity issue, and whether the winter was an anomaly that is not representative of how the system typically works on peak days. Several LDC participants noted that need for careful information sharing and that a strong working relationship with their ISO/RTO is key to effective coordination.
3. ACES Power: The presentation from the ACES Power can be found through the following hyperlink: <https://www.naesb.org/pdf4/geh021816w3.pptx>. The presentation and discussion focused on maintaining the scheduling flexibility provided by the pipelines through interruptible service. The participants discussed the increased use of natural gas and renewable energy for power generation and the shifting away from coal. This increasing use of renewables results in the need for quick start up times, ratable takes and ancillary services. The participants also discussed how new pipeline construction is being driven by the producers more so than electric generators.
4. Fidelity National Information Services: The presentation and supplemental material from Fidelity National Information Services can be found through the following hyperlinks: <https://www.naesb.org/pdf4/geh021816w4.pptx>; https://www.naesb.org/pdf4/geh021816w10.docx (supplemental material). The presentation and discussion focused on standardizing best efforts nominations and creating corresponding efficiencies in the confirmation process. The participants discussed how best efforts nominations currently offered by pipelines work with the standardized nomination cycles, and the various confirmation process currently used by pipelines. It was noted that having a single, standardized confirmation response process and eliminating unsolicited confirmation options, is needed to fully automate the nomination and confirmation process. Allowing best efforts nominations, if utilized efficiently could eliminate the need for unsolicited confirmations. The participants also discussed the benefits and drawbacks to moving from an EDI to an XML data format. Representatives from the LDC community noted the importance of the clean-up cycles, and questioned how a requirement for best efforts nominations would impact those cycles. The participants agreed that the purpose of a nomination should be to indicate the request of a shipper and not to “true things up” after the fact.
5. Skipping Stone: The presentation from Skipping Stone can be found through the following hyperlinks: <https://www.naesb.org/pdf4/geh021816w5.pptx>. The presentation and discussion focused on how non-ratable flow can be used to address coordination issues. Some pipelines offer these services for which they are not compensated. Allowing for non-ratable takes and letting the market develop price signals that can be used to ensure equity may resolve some of the scheduling issues. The participants noted that this may create an opportunity for market manipulation and that the Commission would need to carefully monitor all activities. The participants also discussed the scope of this project and whether NAESB is the appropriate forum for offering such a recommendation. It was also noted that proposal would not address all of the scheduling issues identified by the Commission, including after hours and weekend nominations. The participants discussed whether developing the market espoused in the proposal could be done as “field test,” similar to “field tests” undertaken on other NAESB standards.

The meeting was suspended at 4:54 pm Central on February 18, 2016. The meeting re-opened at 8:30 am Central on February 19, 2016. It was determined to forego time in the agenda for lunch so that it was possible to end the meeting early.1. Environmental Defense Fund: The presentation from the Environmental Defense Fund can be found through the following hyperlink: <https://www.naesb.org/pdf4/geh021816w6.pptx>. The presentation and following discussion focused on how enhanced scheduling could support more dynamic coordination between the markets and examined the PJM market events during the 2014 polar vortex. Specifically, it was noted that unavailability of nomination opportunities during the event lead to the inefficient use of capacity resulting in higher prices. The participants discussed whether the data provided was representative of the entire Northeast during the vortex or an isolated example. The presenter noted that information included in other presentations indicated that only 16% of contracts in place to support electric generation are for firm service and only 32% of the entire pipeline system is contracted to support electric generation. This means that firm service for electric generation accounts for roughly 5% of the total system. They also discussed the “must serve” obligations of power providers during such events and reserve requirements, and that ancillary services are essential for meeting their obligations. Representatives from the pipeline community also observed that customers are not typically requesting additional scheduling opportunities because they are offered no-notice services and non-ratable flow options to meet unexpected demands for capacity. It was noted that more compressed scheduling times could lead to more conservative scheduling by pipelines. Participants representing LDCs noted that there is access to storage in the Northeast and that it may have been used to mitigate constraint issues during the 2014 vortex. Discussions during the presentation provided by Skipping Stone raised concerns with the scope of the presentation relative to the request of the Commission and direction of the Board of Directors.
2. Coalition of Energy Technology Firms: The presentation from the Coalition of Energy Technology Firms can be found through the following hyperlink: <https://www.naesb.org/pdf4/geh021816w7.pptx>. The presentation and discussion focused on the use of modeling to support and improve market efficiencies. The presenters recognized that a certain amount of judgment may be needed as part of the “art of scheduling,” but when there are opportunities for automation to speed the nomination and confirmation process, modeling can help to identify those areas. Representatives from pipeline companies stated that they support the use of data analytics and modeling, and currently use them to review and test their processes.
3. OATI, Inc.: The presentation from OATI, Inc. and supplemental material can be found through the following hyperlinks: <https://www.naesb.org/pdf4/geh021816w8.pptx>, <https://www.naesb.org/pdf4/geh021816w9.pdf> (supplemental material). The presentation and following discussion focused on how the wholesale electricity market’s e-Tag electronic scheduling system could be used to support gas scheduling processes. The participants discussed the physical differences between the two commodities and noted that pooling and liquidity in the gas market may present issues that would make it difficult to adapt an e-Tag system to gas. The participants also discussed how FERC Order Nos. 888 and 1000 transformed the wholesale electric market nearly 20 years ago, and how each market currently addresses system constraints. It was noted that some of the same concerns being raised now were made when the transformative electric market orders were drafted. Concerns regarding the scope of the presentation were raised, and the presenters noted that the purpose of the presentation was to solicit discussion and further refine the rough outline of how the e-Tag system could be applied to the gas system.
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| **Closing Remarks and Planning for Next Meeting** | Mr. Thorn and Ms. Tierney gave the participants an opportunity for any closing remarks. They stated that during the next meeting, scheduled for March 7-8, 2016, the group will continue the effort based on the work done by the presenters and further discuss the issues that were identified in the presentations.  |
| **Other Business** | No other business was discussed. |
| **Adjourn:** | The meeting was adjourned at 12:10 pm Central on February 19, 2016.  |
| **Work Papers Provided for the Meeting:** | **Meeting Related Documents:*** Announcement and Agenda: <https://www.naesb.org/pdf4/geh021816a.docx>
* Antitrust Guidance and Other Meeting Policies: <http://www.naesb.org/misc/antitrust_guidance.doc>

**Meeting Materials*** GEH Forum Timeline Schedule of Meetings and Deliverables: <https://www.naesb.org/pdf4/geh012516w3.doc>
* NAESB RSVP List as of February 9, 2016: <https://www.naesb.org/pdf4/naesb_geh_forum_rsvp_021816.pdf>
* NAESB GEH Forum Distribution List as of February 9, 2016: <https://www.naesb.org/pdf4/naesb_geh_forum_distlist_2016.doc>
* GEH Forum January 25 Draft Minutes: <https://www.naesb.org/pdf4/geh012516notes.docx>

**Presentations:*** NAESB WGQ Pipeline Segment: <https://www.naesb.org/pdf4/geh021816w1.pdf>
* PJM: <https://www.naesb.org/pdf4/geh021816w2.pdf>
* ACES Power: <https://www.naesb.org/pdf4/geh021816w3.pptx>
* Fidelity National Information Services (FIS): <https://www.naesb.org/pdf4/geh021816w4.pptx>
	+ Additional Notes and Comments including Examples: <https://www.naesb.org/pdf4/geh021816w10.docx>
* Skipping Stone: <https://www.naesb.org/pdf4/geh021816w5.pptx>
* Environmental Defense Fund (EDF): <https://www.naesb.org/pdf4/geh021816w6.pptx>
* Coalition of Energy Technology Firms: <https://www.naesb.org/pdf4/geh021816w7.pptx>
	+ (Zip File Due to Size): <https://www.naesb.org/pdf4/geh021816w11.zip>
* OATI, Inc.: <https://www.naesb.org/pdf4/geh021816w8.pptx>
	+ OATI, Inc. – Addendum: <https://www.naesb.org/pdf4/geh021816w9.pdf>
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| **White Board Notes Taken During the Meeting** | <https://www.naesb.org/pdf4/geh021816a1.docx> |

| **Attendance List for the February 18-19, 2016 GEH Forum Meeting – Sorted by Name** |
| --- |
| **First Name** | **Last Name** | **Company** | **Quadrant** | **Segment** | **NAESBMember** | **18-Feb** | **19-Feb** |
| Karl | Almquist | Tallgrass Operations, LLC | WGQ | Pipeline | Y | Phone | Phone |
| Trevante | Bailey | Dominion Transmission, Inc. | WGQ | Pipeline | Y | In Person | In Person |
| Wayne | Benoit | Boardwalk Pipeline Partners, LP | WGQ | Pipeline | Y | In Person | In Person |
| Susan | Bergles | American Gas Association | WGQ | LDC | Y | Phone | Phone |
| Carrie | Bivens | Electric Reliability Council of Texas, Inc. (ERCOT) | WEQ | IGO | Y | In Person | In Person |
| Jonathan | Booe | North American Energy Standards Board | None | None | Staff | In Person | In Person |
| Paul | Borkovich | Southern California Gas Company | WGQ | LDC | Y | Phone | Phone |
| Brad | Bouillon | California Independent System Operator Corp. | WEQ | IGO | Y | In Person | In Person |
| Y.J. | Bourgeois | Anadarko Energy Services Company | WGQ | Producer | Y | In Person | In Person |
| Kelly R. | Brooks | WBI Energy Transmission, Inc. | WGQ | Pipeline | Y | Phone | Phone |
| Richard | Brown | PJM Interconnection, LLC | WEQ | IGO | Y | Phone | Phone |
| Dan | Buckner | Alliance for Cooperative Energy Services Power Marketing LLC (ACES) | WGQ | End User | N | In Person | In Person |
| Montie | Callager | Targa Resources Inc. | WGQ | Services | N | In Person | Phone |
| Joe | Casey | Spectra Energy Corp | WGQ | Pipeline | Y | In Person | In Person |
| Douglas | Chapel | Consumers Energy Company | WGQ | LDC | N | Phone | Phone |
| Pete | Connor | American Gas Association rep | WGQ | LDC | Y | Phone | Phone |
| Chuck | Cook | Chevron Natural Gas | WGQ | Producer | Y | In Person | In Person |
| Margaret | Cordts | NorthWestern Energy | WGQ | LDC | N | Phone | Phone |
| Janet | Corritore | Tenaska Marketing Ventures | WGQ | Generation | N | Phone | Phone |
| David | Crabtree | TECO/Peoples Gas System | WEQ | Distribution | Y | Phone | Phone |
| Valerie | Crockett | Tennessee Valley Authority | WGQ | End User | Y | In Person | In Person |
| Lorraine | Cross | Cross & Company, P.L.L.C. | None | None | \*A | Phone | Phone |
| George | Danner | Business Laboratory, LLC | WEQ | Services | N | ----- | In Person |
| Dale | Davis | Williams | WGQ | Pipeline | Y | In Person | In Person |
| Rae | Davis | Dominion Carolina Gas Transmission , LLC | WGQ | Pipeline | Y | Phone | Phone |
| Alexander  | Davydov | Total Gas and Power North America Inc. | WGQ | Pipeline | N | In Person | In Person |
| Jerry H. | Dempsey | OATI | WEQ | End User | Y | In Person | In Person |
| Katie | Ege | Great River Energy | WEQ | Generation | N | Phone | Phone |
| Sam | Ellis | Southwest Power Pool | WEQ | IGO | Y | Phone | Phone |
| Anna | Fernandez | Federal Energy Regulatory Commission (FERC) | None | None | \*\*G | Phone | Phone |
| Douglas | Field | Southern Star Central Gas Pipeline, Inc. | WGQ | Pipeline | Y | Phone | Phone |
| Brian | Fields | Calpine Energy Services, LP | WGQ | End User | Y | In Person | In Person |
| Brian J.  | Fitzpatrick | PJM Interconnection, LLC | WEQ | IGO | Y | In Person | Phone |
| Tina | Gary | Portland General Electric Company | WEQ | Generation | N | Phone | Phone |
| Dennis | Gee | Pacific Gas and Electric Company (PG&E) | WGQ | LDC | Y | Phone | Phone |
| Gloria | Glover | TECO/Peoples Gas System | None | None | N | ----- | Phone |
| Casey | Gold | Natural Gas Supply Association (NGSA) | WGQ | Producer | N | In Person | In Person |
| Mike | Goldenberg | Federal Energy Regulatory Commission (FERC) | None | None | \*\*G | Phone | Phone |
| Lindsay | Gottsponer | AGL Resources Inc. | WGQ | Pipeline | Y | Phone | Phone |
| Jerry H. | Gross | Questar Pipeline Company | WGQ | Pipeline | Y | In Person | In Person |
| Ann | Hartigan | Unitil Service Corporation | WGQ | LDC | Y | Phone | Phone |
| Ronnie C. | Hensley II | Southern Star Central Gas Pipeline, Inc. | WGQ | Pipeline | Y | Phone | Phone |
| Sherry | Hill | TransCanada PipeLines Limited | WGQ | Pipeline | Y | In Person | In Person |
| Roy | Hiller | Southern Company Services, Inc. | WGQ | End User | Y | In Person | In Person |
| Rachel | Hogge | Dominion Transmission, Inc. | WGQ | Pipeline | Y | Phone | Phone |
| Patricia | Jagtiani | Natural Gas Supply Association (NGSA) | WGQ | Producer | N | Phone | Phone |
| Steven | Jaskolski | TransCanada US Pipelines / ANR Pipeline Company | WGQ | Pipeline | Y | Phone | Phone |
| Robert | Kott | California Independent System Operator Corp. | WEQ | IGO | Y | Phone | Phone |
| Andrew | Kennedy | TECO/Peoples Gas System | WEQ | Distribution | Y | Phone | Phone |
| Debbie | Kupczyk | National Fuel Gas Supply Corporation | WGQ | Pipeline | Y | Phone | Phone |
| Gregory | Lander | Skipping Stone, LLC - CapacityCenter | WGQ | Services | Y | In Person | In Person |
| Nancy | Leatherland | Enbridge (U.S.) Inc. | WGQ | Pipeline | Y | In Person | In Person |
| Elizabeth | Mallett | NAESB | None | None | Staff | Phone | Phone |
| Steve | Maestas | Public Service Company of New Mexico | WEQ | Mrkt/Brk | Y | In Person | In Person |
| Steve | McCord | Columbia Gas Transmission, LLC | WGQ | Pipeline | Y | In Person | In Person |
| Missy | McNamara | Columbia Gas Transmission, LLC | WGQ | Pipeline | Y | In Person | In Person |
| Rae | McQuade | North American Energy Standards Board | None | None | Staff | In Person | In Person |
| Michelle | Mendoza | Piedmont Natural Gas | WGQ | LDC | N | Phone | Phone |
| Cary | Metz | Enable Energy Resources, LLC | WGQ | Services | Y | In Person | In Person |
| Megan | Miller | Spectra Energy Corp | WGQ | Pipeline | Y | In Person | In Person |
| Sherri | Monteith | American Electric Power | WEQ | Generation | Y | In Person | In Person |
| Richard | Moreno | Panhandle Eastern Pipe Line Company, LLC | WGQ | Pipeline | N | Phone | Phone |
| Doug | Morgan | United Utility Group | WGQ | LDC | N | In Person | In Person |
| Bob | Mosemann | Anadarko Energy Services Company | WGQ | Producer | Y | In Person | In Person |
| Sylvia | Munson | FIS | WGQ | Services | Y | In Person | In Person |
| Erin | Murphy | Environmental Defense Fund, Inc. | WGQ | End User | Y | Phone | Phone |
| Christi | Nicolay | Macquarie Energy LLC | WGQ | Services | Y | In Person | ----- |
| David | Nilsson | Power Costs, Inc. (PCI) | WEQ | Tech/Serv | Y | Phone | Phone |
| Mike | Novak | National Fuel Gas Distribution Corporation | WGQ | LDC | Y | Phone | Phone |
| Gene | Nowak | Kinder Morgan Inc | WGQ | Pipeline | Y | In Person | In Person |
| Lou | Oberski | Dominion Resources Services, Inc. | WEQ | Generation | Y | In Person | In Person |
| Linn C. | Oelker | LG&E and KU Services Company | WEQ | Generation | N | Phone | Phone |
| Randy E. | Parker | ExxonMobil Gas and Power Marketing Company (a division of ExxonMobil Corporation) | WGQ | Producer | Y | In Person | In Person |
| Norman | Pedersen | Southern California Generation Coalition (Hanna and Morton LLP) | WGQ | End User | N | In Person | In Person |
| N. Jonathan | Peress | Environmental Defense Fund, Inc. | WGQ | End User | Y | In Person | In Person |
| Sheldan | Perry | Open Access Technology International, Inc. (OATI) | WGQ | Services | Y | In Person | In Person |
| Don | Petersen | Pacific Gas and Electric Company (PG&E) | WGQ | Pipeline | N | Phone | Phone |
| Joshua | Phillips | Southwest Power Pool | WEQ | IGO | Y | In Person | In Person |
| Phil | Precht | Baltimore Gas & Electric Company | WGQ | LDC | Y | Phone | Phone |
| Denise | Rager | North American Energy Standards Board | None | None | Staff | In Person | In Person |
| Deepak | Raval | NiSource Inc. | WGQ | LDC | Y | Phone | Phone |
| David | Reitz | National Fuel Gas Supply Corporation | WGQ | Pipeline | Y | Phone | Phone |
| Ginger | Richman | NJR Energy Services Company | WGQ | Services | N | In Person | In Person |
| Sara | Rogers | ONEOK Partners GP, LLC | WGQ | Pipeline | Y | Phone | Phone |
| Douglas | Rudd | New Jersey Natural Gas Company | WGQ | LDC | N | Phone | Phone |
| Steve | Salese | Direct Energy Business, LLC | WGQ | Services | Y | In Person | In Person |
| Manuel | Santos | Open Access Technology International, Inc. (OATI) | WEQ | IGO | Y | In Person | In Person |
| Keith | Sappenfield | Environmental Resources Management | WGQ | Services | Y | Phone | Phone |
| Anita M. | Schafer | Duke Energy Corporation | WGQ | LDC | N | Phone | Phone |
| Ben | Schoene | ConocoPhillips Company | WGQ | Producer | Y | In Person | In Person |
| Dave | Schryver | American Public Gas Association (APGA) | WGQ | Services | N | In Person | In Person |
| Mark | Sellers-Vaughn | Cascade Natural Gas | WGQ | LDC | N | Phone | ----- |
| Donnie | Sharp | City of Huntsville d/b/a Huntsville Utilities | WGQ | LDC | N | In Person | In Person |
| Lisa | Simpkins | Exelon Generation Company, LLC | WGQ | Services | Y | Phone | Phone |
| Jeff | Sissom | APGA/MLGW | WGQ | LDC | N | Phone | Phone |
| Ed | Skiba | MISO | WEQ | IGO | Y | In Person | In Person |
| Rick | Smead | RBN Energy LLC | WEQ | Tech/Serv | Y | In Person | In Person |
| Leigh | Spangler | Latitude Technologies, Inc. | WGQ | Services | Y | ----- | Phone |
| Joe | Sterrett | Tallgrass Operations, LLC | WGQ | Pipeline | Y | Phone | Phone |
| Veronica | Thomason | North American Energy Standards Board | None | None | Staff | In Person | In Person |
| Terence (Terry) | Thorn | KEMA Gas Consulting Services | None | None | \*A | In Person | In Person |
| RJ | Thornbury | The Energy Authority, Inc. | WGQ | Services | N | Phone | Phone |
| Sue | Tierney | Analysis Group, Inc. | None | None | \*A | In Person | In Person |
| Michael | Tita | Federal Energy Regulatory Commission (FERC) | None | None | \*\*G | In Person | In Person |
| Ronald G. | Tomlinson | Dominion Transmission, Inc. | WGQ | Pipeline | Y | In Person | In Person |
| Roy | True | Alliance for Cooperative Energy Services Power Marketing LLC (ACES) | WEQ | Mrkt/Brk | Y | In Person | In Person |
| Caroline | Trum | NAESB | None | None | Staff | Phone | Phone |
| Brad | Van Dyke | Tallgrass Operations, LLC | WGQ | Pipeline | Y | Phone | Phone |
| Kim | Van Pelt | Texas Gas Transmission | WGQ | Pipeline | N | In Person | In Person |
| Glenn | Vaughan | Enbridge | None | None | N | Phone | Phone |
| Jill | Vaughan | CSR, Transcriber | None | None | N | In Person | In Person |
| Deborah | Waugh | Williams - Discovery | WGQ | Pipeline | N | Phone | Phone |
| Thomas | Webb | Enbridge (U.S.) Inc. | WGQ | Pipeline | Y | Phone | ----- |
| David | Webster | Macquarie Energy LLC | WGQ | Services | Y | ----- | In Person |
| Randy | Young | Gulf South Pipeline Company | WGQ | Pipeline | N | In Person | In Person |

\* If you did attend this meeting, either in-person or by phone, and are not listed, please alert the NAESB office and we will update this record.