



NORTH AMERICAN ENERGY STANDARDS BOARD

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December 3, 2024
Filed Electronically

The Honorable Debbie-Anne A. Reese
Secretary
Federal Energy Regulatory Commission
888 First Street N.E., Room 1A
Washington, D.C. 20426

RE: Standards for Business Practices of Interstate Natural Gas Pipelines (Docket No. RM96-1)

Dear Ms. Reese:

The North American Energy Standards Board ("NAESB") voluntarily submits this report to the Federal Energy Regulatory Commission ("FERC" or "Commission") in response to the FERC, North American Electric Reliability Corporation ("NERC"), and Regional Entity Staff Report: *Inquiry into Bulk-Power System Operations During December 2022 Winter Storm Elliott* ("Winter Storm Elliott Report"). The purpose of this report is to inform the Commission of the modifications to the NAESB Wholesale Gas Quadrant (WGQ) Business Practice Standards specific to the request of NAESB included as Recommendation 5 in the Winter Storm Elliott Report. The modifications were ratified by the NAESB membership on November 25, 2024 and revise NAESB WGQ Standard No. 4.3.23 and add NAESB WGQ Standard No. 0.3.30 and NAESB WGQ Standard No. 5.3.74.

Respectfully submitted,

Rae McQuade

Ms. Rae McQuade
President North American Energy Standards Board

cc with enclosures: Chairman, Willie L. Phillips, Federal Energy Regulatory Commission
Commissioner Judy W. Chang, Federal Energy Regulatory Commission
Commissioner Mark. C. Christie, Federal Energy Regulatory Commission
Commissioner David Rosener, Federal Energy Regulatory Commission
Commissioner Lindsay S. See, Federal Energy Regulatory Commission

Mr. Kal Ayoub, Director, Office of Electric Reliability, Federal Energy Regulatory Commission
Mr. Matthew Christiansen, General Counsel, Office of the General Counsel, Federal Energy Regulatory Commission
Ms. Jignasa Gadani, Director, Office of Energy Policy and Innovation, Federal Energy Regulatory Commission
Ms. Jette Gebhart, Director, Office of Energy Market Regulation, Federal Energy Regulatory Commission
Mr. Joseph H. McClelland, Director, Office of Energy Infrastructure Security, Federal Energy Regulatory Commission

Mr. Michael Desselle, Vice Chairman & CEO, North American Energy Standards Board
Mr. Paul Smith, Vice Chairman, North American Energy Standards Board
Mr. Jonathan Booe, Executive Vice President & COO, North American Energy Standards Board
Mr. William P. Boswell, General Counsel, North American Energy Standards Board



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Enclosures (all documents and links are available publicly on the NAESB website – www.naesb.org)

Appendix A	Hyperlinks to Board of Directors Meeting Minutes and Voting Records
Appendix B	Hyperlinks to Subcommittees Meeting Minutes, Presentations, Workpapers, and Voting Records
Appendix C	Hyperlinks to Executive Committee Minutes, Comments and Voting Record Links
Appendix D	Hyperlinks to Ratification Ballot and Ratification Results
Appendix E	NAESB 2024 WGQ Annual Plan
Appendix F	NAESB 2024 RMQ Annual Plan
Appendix G	NAESB 2024 WEQ Annual Plan

December 3, 2024

**UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION**

Coordination of the Scheduling Processes of Interstate Natural Gas Pipelines and Public Utilities) **Docket No. RM RM96-1**
)

REPORT OF THE NORTH AMERICAN ENERGY STANDARDS BOARD

The North American Energy Standards Board ("NAESB") voluntarily submits this report in the above referenced docket to inform the Federal Energy Regulatory Commissions ("FERC" or "Commission") of recent efforts to modify the NAESB Wholesale Gas Quadrant ("WGQ") Business Practices Standard in response to Recommendation 5 of the FERC, North American Electric Reliability Corporation ("NERC"), and Regional Entity Staff Report: *Inquiry into Bulk-Power System Operations During December 2022 Winter Storm Elliott* ("Winter Storm Elliott Report"). As part of this standards development effort, NAESB modified WGQ Standard No. 4.3.23 and created two new standards, WGQ Standard No. 0.3.30 and WGQ Standard No. 5.3.74. This report highlights the activities of the organization that led to these standards changes in response to the Winter Storm Elliott Report and at the direction of the NAESB Board of Directors.

On July 28, 2023, NAESB released the Gas-Electric Harmonization ("GEH") Forum Report that identified twenty recommendations for consideration to improve the reliability of the natural gas infrastructure as necessary to support the bulk electric system and to address the recurring challenges stemming from natural gas-electric interdependency. NAESB convened the GEH Forum in response to the July 29, 2022 request of then FERC Chairman Richard Glick and NERC President and Chief Executive Officer Mr. James B. Robb, that NAESB establish a forum to address Key Recommendation 7 of the FERC, NERC, and Regional Entity Staff Report on the February 2021 Cold Weather Outages in Texas and South-Central United States. In total, over 700 individuals representing more than 370 different organizations from all segments of the natural gas and electric markets participated in the activities of the GEH Forum. The GEH Forum Report recommendations were developed and voted on by GEH Forum participants and focused on several different areas, including actions for consideration by FERC and other regulators, that could improve information sharing.

After the publication of the GEH Forum Report, on November 7, 2023, FERC and NERC released the Winter Storm Elliott Report. Recommendation 5 of the Report called for NAESB to "convene natural gas infrastructure entities, electric grid operators, and [local distribution companies] LDCs to identify improvements in communication during extreme cold weather events to enhance situational awareness." In response, the NAESB Board of Directors created a jointly assigned annual plan item as part of the WGQ, Wholesale Electric Quadrant ("WEQ"), and Retail Market Quadrant ("RMQ") 2024 Annual Plans to support the development of gas-electric coordination business practice standards.

The annual plan items directed the Joint WGQ, WEQ, and RMQ Business Practices Subcommittees (“BPS”) to review and modify the NAESB Gas/Electric Coordination Business Practice Standards, and any corresponding standards, that could improve communications among gas and electric market participants and enhance situational awareness during extreme weather events without endangering sensitive commercial information; specifically, to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, balancing authorities (“BAs”), shippers, and end-use customers (i.e., LDCs). This included the development and/or modification of business practice standards (1) for the communication of information about operational issues (e.g. location, estimated duration of outage) to and from BAs, LDCs, and shippers in anticipation of critical notices, operational flow orders or force majeure notices during extreme weather and (2) the communication of aggregated volume data or confirmed scheduled quantities for key upstream receipt points on the pipeline system during extreme cold weather events without endangering sensitive commercial information.

Based on the NAESB Board of Directors’ action, the Joint WGQ, WEQ, and RMQ BPS convened on January 31, 2024 to begin work on the assignment. Between January and July 2024, the Joint WGQ, WEQ, and RMQ BPS held ten meetings to identify and evaluate possible areas of standards development. On July 19, 2024, the joint subcommittees voted out a recommendation proposing new and revised WGQ Business Practice Standards. A thirty-day formal industry comment period on the recommendation began on July 19, 2024 and concluded on August 19, 2024. The NAESB office received two sets of comments, submitted by the Interstate Natural Gas Association of America and the ISO/RTO Council (“IRC”) Electric Gas Coordination Task Force, both in support of the recommendation. On October 24, 2024, the NAESB WGQ Executive Committee (“EC”) voted to approve the recommendation with super majority support. NAESB WGQ membership subsequently ratified the new and revised standards on November 25, 2024.

As identified in the Final Action for 2024 WGQ Annual Plan Item 4.a / 2024 WEQ Annual Plan Item 6.a / 2024 RMQ Annual Plan Item 3.a, the ratified standards make three modifications to Version 4.0 of the NAESB WGQ Business Practice Standards intended to add efficiency to the accessibility of data that may be helpful when the need for market coordination is critical and to facilitate greater granularity concerning geographic information that may be provided as part of critical notices. These changes include two new standards and revisions to one existing standard. First, the ratified changes create a central location on an Informational Postings Web site where a transportation service provider can post publicly available data, including scheduled quantity information. NAESB WGQ Standard No. 4.3.23, found in the Quadrant Electronic Delivery Mechanism Related Standards Manual, identifies the posting categories and subcategories available for use by a transportation service provider as part of its Informational Postings Web site. The modifications establish a new information posting category, “Gas Electric Coordination,” for use, when applicable, by a transportation service provider and can help streamline the process for RTOs/ISOs and other parties accessing this data during extreme weather or emergency events. The new NAESB WGQ Standard No. 0.3.30, included in the WGQ Additional Standards Manual, facilitates the posting of applicable scheduled quantity

information for directly connected power plants as part of the “Gas Electric Coordination” category. Examples of the data that could be provided in the new posting category identified in NAESB WGQ Standard No. 4.3.23 include: Cycle Indicator (Cycle), Effective Gas Day (Eff Gas Day), Location (Loc), Location Name (Loc Name), Location County (Loc Cnty), Location State Abbreviation (Loc St Abbrev), Measurement Bases (Meas Basis), Posting Date (Post Date), Posting Time (Post Time), RTO/ISO, and Total Scheduled Quantity (TSQ).

Additionally, the revisions include a second new standard, NAESB WGQ Standard No. 5.3.74, found in the WGQ Capacity Release Standards Manual. Specifically, NAESB WGQ Standard No. 5.3.74 supports the inclusion of the geographic information of impacted areas, locations, or pipeline facilities by a transportation service provider when issuing a critical notice. As identified by the participants in the standards development, the inclusion of geographic information as part of a critical notice can help parties receiving the notices, like end users and RTOs/ISOs, identify and assess any possible impact to their respective systems.

There are seven enclosures included as part of this report. Appendix A provides hyperlinks to the relevant meeting minutes of the NAESB Board of Directors and Appendix B to the relevant meeting minutes, presentations, work papers, and voting record of the Joint WGQ, WEQ, and RMQ BPS. Appendix C contains hyperlinks to the relevant Executive Committee minutes, comments, and voting record. Appendix D includes hyperlinks to the ratification ballot and ratification results. Appendices E, F, and G are the NAESB 2024 WGQ Annual Plan, NAESB 2024 RMQ Annual Plan, and NAESB 2024 WEQ Annual Plan, respectively.

Final Action 2024 WGQ Annual Plan Item 4.a / 2024 WEQ Annual Plan Item 6.a / 2024 RMQ Annual Plan Item 3.a – Review and modify the Gas / Electric Coordination Business Practice Standards and any corresponding standards to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, BAs, shippers, and end-use customers (i.e., Local Distribution Companies) as needed to enhance situational awareness during extreme cold weather events without endangering sensitive commercial information:		
STANDARD NUMBER	DESCRIPTION/TOPIC	ACTION
Quadrant Electronic Delivery Mechanism Related Standards		
4.3.23	Standard	Modify the table to add the following category: “Gas Electric Coordination (when applicable.)”
Capacity Release Standards		
5.3.74	Standard	Add Standard
Additional Standards		
0.3.30	Standard	Add Standard

Appendices:

- A..... Hyperlinks to Board of Directors Meeting Minutes and Voting Records
- B..... Hyperlinks to Subcommittee Meeting Minutes, Presentations, Work Papers, and Voting Records
- C..... Hyperlinks to Executive Committee Minutes, Comments, and Voting Record
- D..... Hyperlinks to Ratification Ballot and Ratification Results
- E..... NAESB 2024 WGQ Annual Plan
- F..... NAESB 2024 Retail Annual Plan
- G..... NAESB 2024 WEQ Annual Plan

Appendix A Hyperlinks to Board of Directors Meeting Minutes and Voting Records

APPENDIX A – HYPERLINKS TO BOARD OF DIRECTORS MEETING MINUTES AND VOTING RECORDS	
Date	Hyperlinks to Meeting Minutes & Voting Record
12-14-23	Meeting Minutes: https://www.naesb.org/pdf4/bd121423fm.docx
04-04-24	Meeting Minutes: https://naesb.org/pdf4/bd040424fm.docx
09-05-24	Meeting Minutes: https://www.naesb.org/pdf4/bd090524dm.docx

Appendix B: Hyperlinks to Subcommittee Meeting Minutes, Presentations, Work Papers, and Voting Records

APPENDIX B – HYPERLINKS TO SUBCOMMITTEE MEETING MINUTES, PRESENTATIONS, WORK PAPERS, AND VOTING RECORDS		
Date	Hyperlinks to Meeting Minutes & Voting Records	Hyperlinks to Presentations and Work Papers
1-31-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps013124fm.docx	NAESB Gas-Electric Coordination Business Practice Standards: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps013124w1.docx
2-15-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://naesb.org/pdf4/weq_wgq_rm_q_bps021524fm.docx	EPSA Comments: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps021524w1.docx Xcel Energy Comments: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps021524w2.docx Argonne National Laboratory Presentation: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps021524w3.pdf Natural Gas Fundamentals Regulatory Requirements and NAESB Standards: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps021524w4.pdf Enbridge Presentation: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps021524w5.pdf Texas Gas and Gulf South Over-Under Performance Critical Notice Examples: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps021524w6.pdf
2-29-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps022924fm.docx	EPSA Comments: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps022924w1.docx Xcel Energy Comments: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps022924w2.docx Natural Gas Fundamentals Regulatory Requirements and NAESB Standards: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps022924w3.pdf Enbridge Presentation: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps022924w4.pdf Texas Gas and Gulf South Over-Under Performance Critical Notice Examples: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps022924w5.pdf
3-11-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps031124fm.docx	Joint Comments: California ISO (CAISO), Independent Electricity System Operator (IESO), ISO New England (ISO-NE), Midcontinent ISO (MISO), New York ISO (NYISO), PJM, and Southwest Power Pool (SPP): https://www.naesb.org/pdf4/weq_wgq_rm_q_bps031124w1.pdf
4-5-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps040524fm.docx	Interstate Natural Gas Pipeline Draft Standards Work Paper: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps040524w1.docx
4-25-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps042524fm.docx	Comments on NAESB Efforts to Enhance Situational Awareness During Extreme cold-Weather Events, submitted by Piedmont Natural Gas: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps042524w1.docx Joint BPS Chairs Scenario Communication Gap Analysis Work Paper: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps042524w2.docx

Appendix B: Hyperlinks to Subcommittee Meeting Minutes, Presentations, Work Papers, and Voting Records

APPENDIX B – HYPERLINKS TO SUBCOMMITTEE MEETING MINUTES, PRESENTATIONS, WORK PAPERS, AND VOTING RECORDS		
Date	Hyperlinks to Meeting Minutes & Voting Records	Hyperlinks to Presentations and Work Papers
5-6-24	<p>Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050624fm.docx</p>	<p>Joint BPS Chairs’ Scenario Based Communication Gap Analysis Work Paper: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050624w1.docx</p> <p>Comments on NAESB Efforts to Enhance Situational Awareness During Extreme Cold-Weather Events, submitted by Piedmont Natural Gas: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050624w2.docx</p> <p>Interstate Natural Gas Pipeline Draft Standards Work Paper: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps050624w3.docx</p> <p>Joint BPS Chairs’ Scenario Based Communication Gap Analysis Work Paper with proposed revisions submitted by P. Jagtiani: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050624w4.docx</p> <p>Attachment to Meeting Minutes: Joint BPS Chairs’ Scenario Based Communications Gap Analysis Work Paper rev. 5.6.24: https://naesb.org/pdf4/weq_wgq_rm_q_bps050624a1.docx</p>
6-14-24	<p>Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps061424fm.docx</p>	<p>Win-Win Solution for Gas-Electric Synchronization - Submitted by Skipping Stone: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_skippingstone.pdf</p> <p>Comments Submitted by the American Public Gas Association (APGA): https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_APGA.pdf</p> <p>Comments Submitted by the Interstate Natural Gas Association of America (INGAA): https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_INGAA.pdf</p> <p>Comments Submitted by National Grid: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_National_Grid.pdf</p> <p>Comments Submitted by Natural Gas Supply Association (NGSA): https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_NGSA.docx</p> <p>Comments Submitted by MISO: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_MISO.docx</p> <p>Comments Submitted by IESO, ISONE, NYISO, MISO, PJM, and SPP: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_Joint_RTO.pdf</p> <p>Comments Submitted by the Electric Power Supply Association (EPSA): https://www.naesb.org/pdf4/weq_wgq_rm_q_bps050924reqcom_EPSA.pdf</p> <p>Comments on NAESB Efforts to Enhance Situational Awareness During Extreme Cold-Weather Events, submitted by Piedmont Natural Gas: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps061424w1.docx</p> <p>Draft Joint BPS Recommendation Part 1 - 2024 WGQ AP Item 4.a - WEQ AP Item 6.a - RMQ AP Item 3.a: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps061424w2.docx</p>
7-19-24	<p>Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://naesb.org/pdf4/weq_wgq_rm_q_bps071924fm.docx</p>	<p>Draft Joint BPS Recommendation Part 1 - 2024 WGQ AP Item 4.a - WEQ AP Item 6.a - RMQ AP Item 3.a: https://www.naesb.org/member_login_check.asp?doc=weq_wgq_rm_q_bps071924w1.docx</p> <p>Argonne National Laboratory NGInsight Tool Presentation: https://www.naesb.org/pdf4/weq_wgq_rm_q_bps071924w2.pdf</p>

Appendix B: Hyperlinks to Subcommittee Meeting Minutes, Presentations, Work Papers, and Voting Records

APPENDIX B – HYPERLINKS TO SUBCOMMITTEE MEETING MINUTES, PRESENTATIONS, WORK PAPERS, AND VOTING RECORDS		
Date	Hyperlinks to Meeting Minutes & Voting Records	Hyperlinks to Presentations and Work Papers
7-29-24	Joint WEQ/WGQ/RMQ BPS Meeting Minutes: https://naesb.org/pdf4/weq_wgq_rm_q_bps072924dm.docx	Joint BPS Chairs’ Scenario Based Communication Gap Analysis Work Paper rev. 5.6.24 with additional Modifications from the Joint BPS Chairs: https://naesb.org/pdf4/weq_wgq_rm_q_bps072924w1.docx Attachment to Meeting Minutes: Joint BPS Chairs’ Scenario Based Communications Gap Analysis Work Paper rev. 7.29.24: https://naesb.org/pdf4/weq_wgq_rm_q_bps072924a1.docx

Report of the North American Energy Standards Board
 Gas-Electric Coordination Efforts, FERC Docket No. RM 96-1
 Adopted by NAESB on November 25, 2024

Appendix C: Hyperlinks to Executive Committee Meeting Minutes, Comments, and Voting Records

APPENDIX C – HYPERLINKS TO EXECUTIVE COMMITTEE MEETING MINUTES, COMMENTS, AND VOTING RECORD			
Date	Hyperlink to Meeting Minutes & Voting Record	Recommendation that Resulted in Standard Modifications	Hyperlinks to Comments Submitted During Formal Comment Period
10-24-24	Meeting Minutes: https://www.naesb.org/pdf/4/wgq_ec102424dm.docx	Recommendation 2024 WGQ Annual Plan Item 4.a - Review and modify the Gas / Electric Coordination Business Practice Standards and any corresponding standards to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, BAs, shippers, and end-use customers (i.e., Local Distribution Companies) as needed to enhance situational awareness during extreme cold weather events without endangering sensitive commercial information: https://www.naesb.org/member_login_check.asp?doc=wgq_rat102524_api_4a_rec.docx	Comments Submitted by C. Smith, Interstate Natural Gas Association of America: https://naesb.org/pdf4/weq_wgq_rm071924reqcom_ingaa.pdf Comments Submitted by J. Phillips on behalf of the IRC Electric Gas Coordination Task Force: https://naesb.org/pdf4/weq_wgq_rm071924reqcom_IRC_EGCTF.pdf

Report of the North American Energy Standards Board
 Gas-Electric Coordination Efforts, FERC Docket No. RM 96-1
 Adopted by NAESB on November 25, 2024

Appendix D: Hyperlinks to Ratification Ballot and Ratification Results

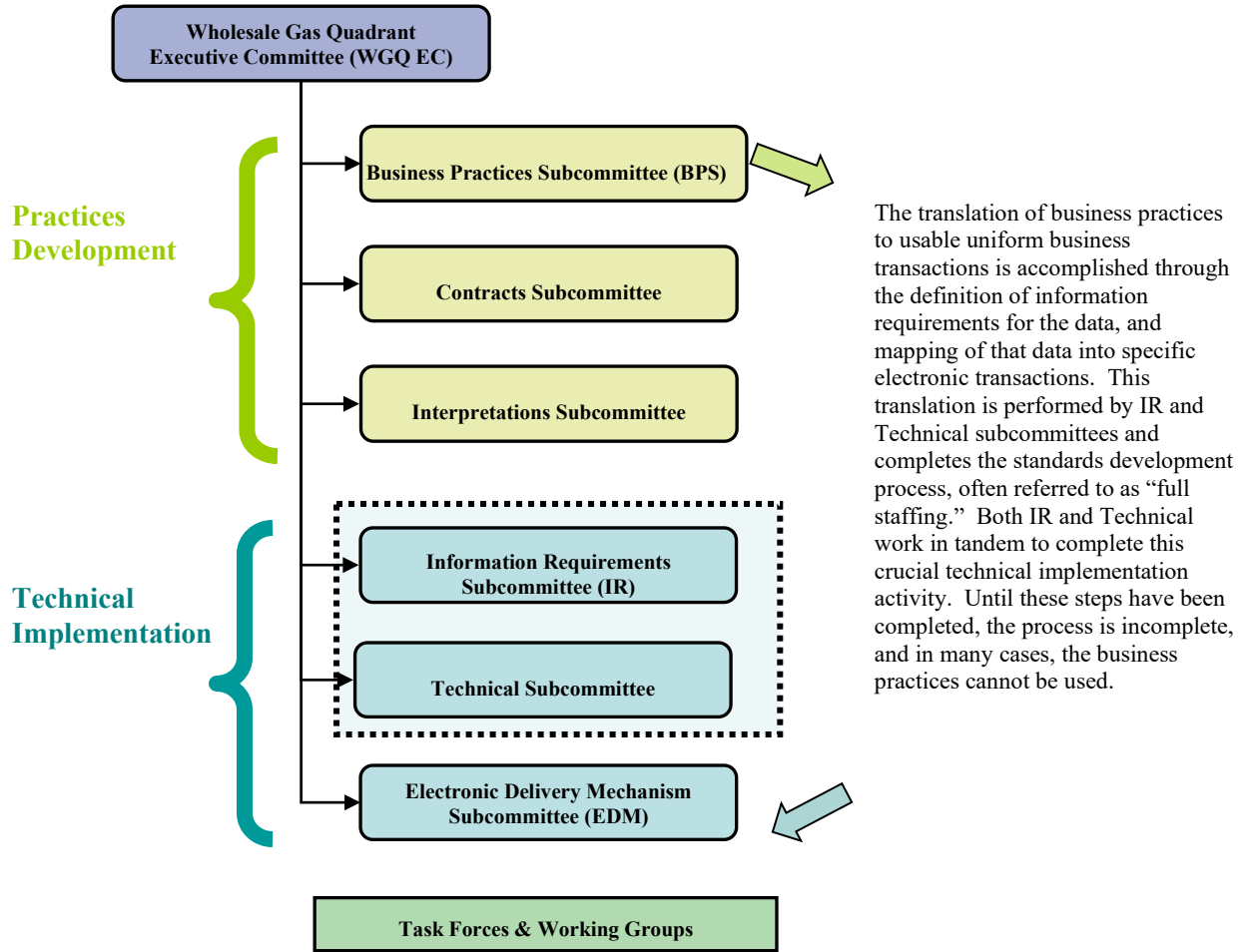
APPENDIX D – HYPERLINKS TO RATIFICATION BALLOT AND RATIFICATION RESULTS		
Hyperlink to Ballot	Hyperlink to Ratification Results	Ratified Recommendation that Resulted in Standard Modifications
https://www.naesb.org/member_login_check.asp?doc=wgq_rat102524ballot.doc	https://www.naesb.org/pdf4/rat_wgq112524tally.xlsx	Recommendation 2024 WGQ Annual Plan Item 4.a - Review and modify the Gas / Electric Coordination Business Practice Standards and any corresponding standards to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, BAs, shippers, and end-use customers (i.e., Local Distribution Companies) as needed to enhance situational awareness during extreme cold weather events without endangering sensitive commercial information: https://naesb.org/member_login_check.asp?doc=fa_wgq_2024_api_4a.doc X

**NORTH AMERICAN ENERGY STANDARDS BOARD
2024 ANNUAL PLAN for the WHOLESale GAS QUADRANT
Adopted by the Board of Directors on September 5, 2024**

Item Description	Completion¹	Assignment²
1. Electronic Delivery Mechanisms		
Review WGQ Cybersecurity Related Standards Manual, including data fields and minimum technical characteristics, and revise as needed. Status: Not Started	2024	WGQ EDM Subcommittee
2. Update Standards Matrix Tool for Ease of Use³		
Update the reference tool developed for Version 3.2 to reflect modifications applicable to Version 4.0 Status: Not Started	2024	WGQ IR/Technical Subcommittee
3. Update Prior Standards for digital representation (Blockchain) of natural gas trade events		
After development testing of prior Standards for digital representation of natural gas trade events, consistent with NAESB WGQ Standard No. 6.3.1 – NAESB Base Contract for Sale and Purchase of Natural Gas (Base Contract), update prior standards based on results of testing. Status: Not Started	2024	Joint WGQ BPS/EDM/Contracts Subcommittee
4. Gas-Electric Market Coordination		
Upon a request or as directed by NAESB Board or a relevant jurisdictional entity, develop and/or modify business practice standards, as needed, in response to the FERC-NERC-Regional Entity Staff Report: February 2021 Cold Weather Outages in Texas and the South Central United States or from the final report on Winter Storm Elliot.		
a) Review and modify the Gas / Electric Coordination Business Practice Standards and any corresponding standards to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, BAs, shippers, and end-use customers (i.e., Local Distribution Companies) as needed to enhance situational awareness during extreme cold weather events without endangering sensitive commercial information Status: Started		Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
i. Develop and/or modify business practice standards for the communication of information about operational issues (e.g. location, estimated duration of outage) to and from BAs, LDCs, and shippers in anticipation of critical notices, OFOs or force majeure notices during extreme weather Status: Started	3 rd Q, 2024	Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
ii. Develop and/or modify business practice standards for the communication of aggregated volume data or confirmed scheduled quantities for key upstream receipt points on the pipeline system during extreme cold weather events Status: Started	3 rd Q, 2024	Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
5. Purchase and Sale Agreement for Hydrogen Transactions		
Develop business practice standards, as needed, to support purchase and sale transactions related to hydrogen Status: Not Started	2024	WGQ Contracts Subcommittee

**NORTH AMERICAN ENERGY STANDARDS BOARD
 2024 ANNUAL PLAN for the WHOLESale GAS QUADRANT
 Adopted by the Board of Directors on September 5, 2024**

Item Description	Completion ¹	Assignment ²
Program of Standards Maintenance & Fully Staffed Standards Work		
Business Practice Requests	Ongoing	Assigned by the EC ⁴
Continue review against plan for migration to ANSI ASC X12 new versions as needed and coordinate such activities with DISA.	Ongoing	Assigned by the EC ³
Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC ³
Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC ⁴
Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC ³
Maintenance of eTariff Standards	As Requested	Assigned by the EC ⁴
Provisional Activities		
1. Upon a request or as directed by NAESB Board or a relevant jurisdictional entity, develop and/or modify business practice standards, as needed, for standards development resulting from the NAESB Gas-Electric Harmonization Forum.		
2. Upon a request or as directed by NAESB Board, review and update, as necessary, the RNG Addendum or CNG Addendum to address new regulations or new market developments related to RNG or CNG transactions under the NAESB Base Contract.		



NAESB 2024 WGQ EC and Subcommittee Leadership:

- Executive Committee: Jim Buccigross, Chair, Rachel Hogge, Vice-Chair
- Business Practices Subcommittee: Willis McCluskey, Ben Schoene
- Information Requirements Subcommittee: Rachel Hogge, Nichole Lopez
- Technical Subcommittee: Kim Van Pelt, Steven McCord
- Contracts Subcommittee: Keith Sappenfield
- Electronic Delivery Mechanism Subcommittee: Leigh Spangler, Christopher Burden

End Notes, WGQ 2024 Annual Plan:

¹ Dates in the completion column are by end of the quarter for completion by the assigned committee. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed earlier than planned, another item can begin earlier and possibly complete earlier than planned. There are no begin dates on the plan.

¹ The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the annual plan document.

¹ As implementation of business issues are presented to the Information Requirements Subcommittee and Technical Subcommittee, those issues will be given precedence over 2024 WGQ Annual Plan Item No. 2.

¹ The EC assigns maintenance of existing standards on a request-by-request basis.

**NORTH AMERICAN ENERGY STANDARDS BOARD
2024 ANNUAL PLAN for the RETAIL MARKETS QUADRANT
Adopted by the Board of Directors on September 5, 2024**

Item Description	Completion ¹	Assignment ²
1. Electronic Delivery Mechanisms		
Review RMQ Cybersecurity Model Business Practices including data fields and minimum technical characteristics, and revise as needed. Status: Not Started	2024	RMQ IR/TEIS
2. Distributed Energy Resources		
a) Review cybersecurity protections, such as Public Key Infrastructure (PKI), that may be necessary to secure electronic communications for distributed energy resources (DERs), and develop business practices as needed. Status: Started	2024	Joint RMQ BPS, RMQ IR/TEIS, WEQ BPS, and WEQ Cybersecurity Subcommittee
b) Consider and develop business practices to support the integration of DER management systems by the industry Status: Not Started	2024	Joint RMQ BPS and WEQ BPS
c) Develop additional business practices, as needed, to address any retail market specific considerations to support the integration of DER management systems Status: Not Started	2024	RMQ BPS
d) Consider and develop of business practices to support the integration of DER/DER aggregation registries by the industry Status: Not Started	2024	Joint RMQ BPS and WEQ BPS
e) Develop additional business practices, as needed, to address any retail market specific considerations to support the integration of DER/DER aggregation registries Status: Not Started	2024	RMQ BPS
3. Gas-Electric Market Coordination		
a) Review and modify the Gas / Electric Coordination Business Practice Standards and any corresponding standards to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, BAs, shippers, and end-use customers (i.e., Local Distribution Companies) as needed to enhance situational awareness during extreme cold weather events without endangering sensitive commercial information Status: Started		Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
i. Develop and/or modify business practice standards for the communication of information about operational issues (e.g. location, estimated duration of outage) to and from BAs, LDCs, and shippers in anticipation of critical notices, OFOs or force majeure notices during extreme weather Status: Started	3 rd Q, 2024	Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
ii. Develop and/or modify business practice standards for the communication of aggregated volume data or confirmed scheduled quantities for key upstream receipt points on the	3 rd Q, 2024	Joint WGQ, WEQ, and RMQ Business Practice Subcommittees

**NORTH AMERICAN ENERGY STANDARDS BOARD
 2024 ANNUAL PLAN for the RETAIL MARKETS QUADRANT
 Adopted by the Board of Directors on September 5, 2024**

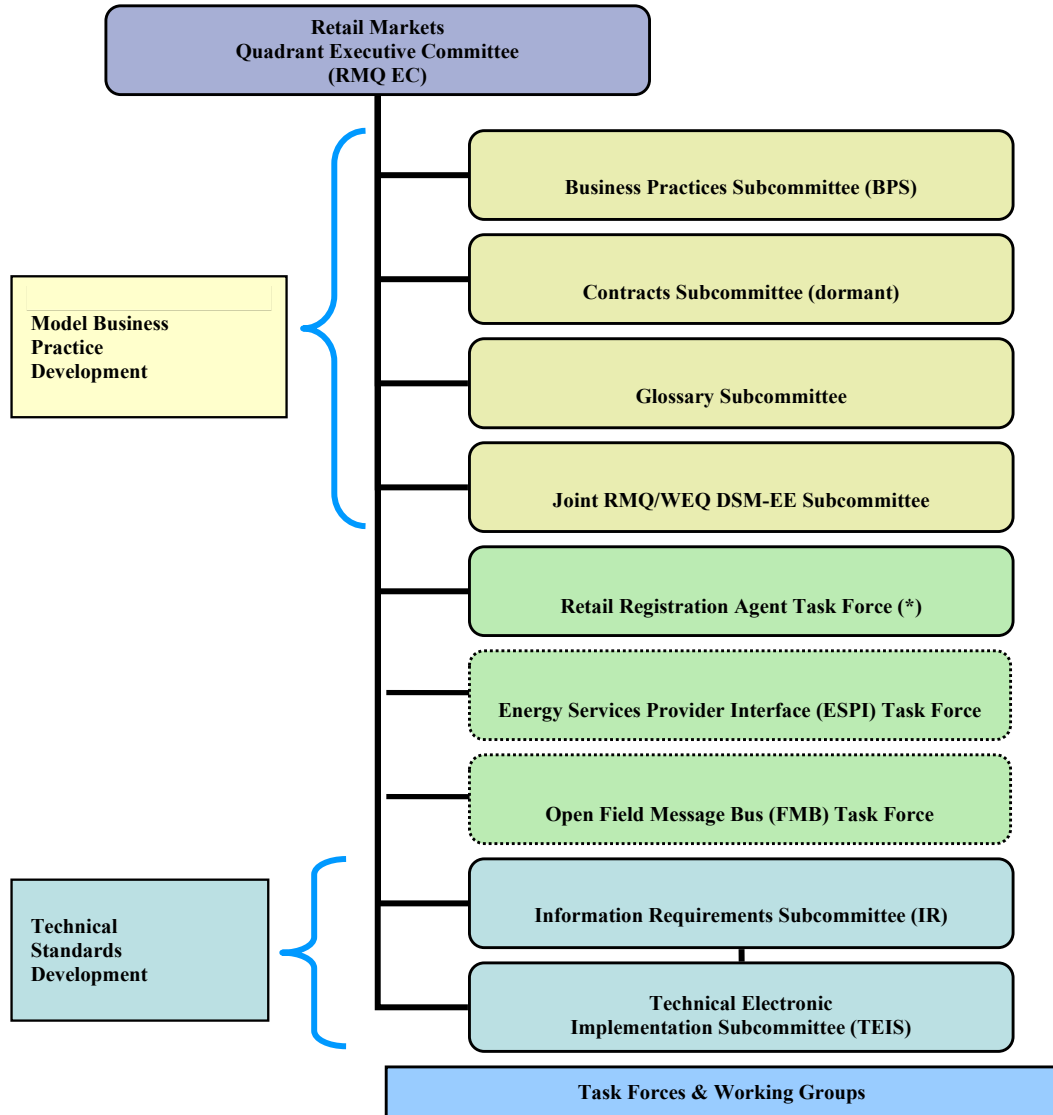
Item Description	Completion ¹	Assignment ²
pipeline system during extreme cold weather events without endangering sensitive commercial information Status: Started		
Program of Standards Maintenance & Fully Staffed Standards Work³		
a. Business Practice Requests	Ongoing	Assigned by the EC
b. Information Requirements and Technical Mapping of Business Practices	Ongoing	Assigned by the EC
c. Interpretations for Clarifying Language Ambiguities	Ongoing	Assigned by the EC
d. Maintenance of Code Values and Other Technical Matters	Ongoing	Assigned by the EC
e. Development and Maintenance of Definitions	Ongoing	Assigned by the EC
f. Harmonization of Definitions with All Other Quadrants	Ongoing	Assigned by the EC
g. Development and Maintenance of Model Business Practices	Ongoing	Assigned by the EC

Provisional Activities

1. Develop NAESB Certification checklist criteria for Retail Quadrants to be used in the NAESB Certification Program. The certification checklist may address test scripts, a checklist of items to be tested, data connectivity for test scripts and EDM testing.
2. Consider development of business practices to support the use of software applications for customer authorizations, including mobile devices.
3. Consider the need for development of Model Business Practices to support the implementation of distributed generation.
4. Consider the need for development of Energy Efficiency Model Business Practices to support the request of the American National Standards Institute.
5. Support the activities of the Retail Structure Review Committee related to standards development.
6. Develop business practice standards, as needed, to support purchase and sale transactions related to hydrogen

Retail Electric Model Business Practices Only:

1. Settlement Process: Reconcile energy schedules and energy delivered by Suppliers within a given market. Note: will need to be coordinated with the WEQ for the RMQ.
2. Review and develop model business practices to support renewable portfolio programs.
3. Develop and/or modify the NAESB Model Business Practices to address any requests regarding community solar or aggregated net metering.



NAESB 2024 Retail EC and Subcommittee Leadership:
 Executive Committee: Debbie McKeever, Chair
 Business Practices Subcommittee: Sam Watson
 Information Requirements Subcommittee/Technical Electronic Implementation Subcommittee: Sam Watson
 Glossary Subcommittee: Debbie McKeever
 DSM-EE Subcommittee: Debbie McKeever
 Retail Registration Agent Task Force: Debbie McKeever
 Open FMB Task Force: Vacant
 Energy Services Provider Interface (ESPI) Task Force: Donald Coffin

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Gas-Electric Coordination Efforts, FERC Docket No. RM 96-1
Adopted by NAESB on November 25, 2024

Appendix F: NAESB 2024 RMQ Annual Plan

(*) The Retail Registration Agent Task Force may draft MBPs, process flows, implementation guides and technical standards supportive of the Registration Agent and submit them to the BPS. The group is chaired by Debbie McKeever

¹ Dates in the completion column are by end of the quarter for completion by the assigned committee and subcommittee. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed earlier than planned, another item can begin earlier and possibly complete earlier than planned. There are no begin dates on the plan.

² The assignments are abbreviated. The abbreviations and committee structure can be found at the end of the Annual Plan document.

³ This work is considered routine maintenance and thus the items are not separately numbered. The RMQ EC will assign maintenance efforts on a request-by-request basis.

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Item Description	Completion ¹	Assignment ²
1. Develop business practices standards as needed to complement reliability standards		
Develop business practice standards to support and complement NERC reliability standards, NERC policies and NERC standards authorization requests (SARs). Current NAESB activities underway to develop business practice standards that are supportive of this annual plan item are:		
a) Revise as needed WEQ-023 Modeling Business Practice Standards to support any FERC directives or Final Orders, including in Docket Nos. RM05-5-029, RM05-5-030, RM19-16-000, RM19-17-000, and AD15-5-000 ¹ Status: Not Started	2024	BPS
b) Review annually, at a minimum, the current version of the NAESB Electronic Tagging Functional Specification and make revisions as necessary to ensure the specification continues to be supportive of applicable NERC Reliability Standards and NAESB WEQ Business Practice Standards and is reflective of current cybersecurity best practices Status: Not Started	2024	CISS
c) Review NERC Reliability Standards EOP-011, EOP-012, and TOP-002 and develop and/or modify any necessary business practice standards to support reliability requirements developed by NERC to address the FERC-NERC-Regional Entity Staff Report: February 2021 Cold Weather Outages in Texas and the South Central United States Status: Not Started	2024	BPS
d) Develop and/or modify any necessary business practice standards, including revisions to WEQ-022 EIR Business Practice Standards, to complement and support new organization registration roles for inverter-based resources within the NERC Compliance Registry Status: Started	2024	CISS
2. Develop business practices standards to improve the current operation of the wholesale electric market and develop and maintain business practice and communication standards for OASIS and Electronic Scheduling		
a) Review the WEQ OASIS Business Practice Standards for needed modifications based on implementation and operational experiences since the adoption of WEQ Version 003.3 Status: Started	2024	OASIS
b) Consider and potentially develop modifications to WEQ-004 Coordinate Interchange and/or the NAESB Electronic Tagging Functional Specification to require that all entities actively approve e-Tags Status: Completed	1 st Q, 2024	CISS

¹ In Paragraph 4 of FERC Order No. 873, issued on September 17, 2020, the Commission reiterated its intentions “to coordinate the effective dates of the retirement of the MOD A Reliability Standards with successor North American Energy Standards Board (NAESB) business practice standards” and that the Commission would “determine the appropriate action regarding the proposed retirement of the MOD A Reliability Standards at a later time.” As part of FERC Order No. 676-J, issued on May 20, 2021, the Commission adopted, through the incorporation by reference process, the WEQ-023 Business Practice Standards as part of action on WEQ Version 003.3. Per the directives contained in FERC Order No. 676-J, industry compliance filings regarding the WEQ-023 Business Practice Standards are due twelve months after the implementation of WEQ Version 003.2, but on earlier than October 27, 2022.

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Item Description	Completion ¹	Assignment ²
3. Develop and/or maintain standard communication protocols and cybersecurity business practices as needed.		
a) Review annually, at a minimum, WEQ-012 and the accreditation requirements for Authorized Certification Authorities to determine if any changes are needed to meet market conditions. ² Status: Not Started	2024	Cybersecurity Subcommittee
b) Evaluate and modify standards as needed to support and/or complement the current version of the NERC Critical Infrastructure Protection Standards ³ and any other activities of NERC and the FERC ⁴ related to cybersecurity. Status: Not Started	2024	Cybersecurity Subcommittee
c) Review cybersecurity protections, such as Public Key Infrastructure (PKI), that may be necessary to secure electronic communications for distributed energy resources (DERs), and develop business practices as needed. Status: Started	2024	BPS/Cybersecurity Subcommittee, RMQ BPS and RMQ IR/TEIS
d) Consider and develop business practice standards for cybersecurity disclosure best practice policies, such as software supply chain risks, to support industry implementation of any applicable regulations Status: Not Started	2024	BPS/Cybersecurity Subcommittee
4. Distributed Ledger Technology		
a) Distributed Ledger Technology for Power Trade Events		
i. Review power trade events to streamline the power accounting close cycle to determine if WEQ Business Practice Standards should be developed utilizing Distributed Ledger Technology (DLT). Status: Not Started	2024	WEQ Executive Committee
ii. Develop Distributed Ledger Technology (DLT) WEQ Business Practice Standards and/or protocols for power trade events to streamline the power accounting close cycle, if needed based upon review. Status: Not Started	2024	WEQ Executive Committee
5. Develop and/or modify standards for information and reporting requirements to support distributed energy resources in front and behind the meter.		
a) Consider and develop of business practices to support the integration of DER management systems by the industry Status: Started	2024	BPS and RMQ BPS
b) Develop additional business practices as needed, to address any wholesale market specific conditions to support the integration of DER management systems by the industry Status: Not Started	2024	BPS

² The “NAESB Accreditation Requirements for Authorized Certification Authorities” can be found at: http://www.naesb.org/member_login_check.asp?doc=certification_specifications.docx.

³ <http://www.nerc.com/pa/Stand/Pages/CIPStandards.aspx>

⁴ Including proceedings in FERC Docket No. RM20-19-000 (FERC Notice of Inquiry Equipment and Services Produced or Provided by Certain Entities Identified as Risks to National Security)

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Item Description	Completion ¹	Assignment ²
c) Consider and develop business practices to support the integration of DER/DER aggregation registries by the industry Status: Not Started	2024	BPS and RMQ BPS
d) Develop additional business practices as needed, to address any wholesale market specific conditions to support the integration of DER/DER aggregation registries by the industry Status: Not Started	2024	BPS

6. Gas-Electric Market Coordination

Develop and/or modify business practice standards, as needed, in response to the FERC-NERC-Regional Entity Staff Report: February 2021 Cold Weather Outages in Texas and the South-Central United States or from the report on Winter Storm Elliott

a) Review and modify the Gas / Electric Coordination Business Practice Standards and any corresponding standards to improve communication among the operators of production facilities (producers, gatherers, processors) and pipeline and storage facilities for the timely dissemination of this coordinated communication from the these facilities to and from relevant natural gas infrastructure entities, BAs, shippers, and end-use customers (i.e., Local Distribution Companies) as needed to enhance situational awareness during extreme cold weather events without endangering sensitive commercial information Status: Started		Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
i. Develop and/or modify business practice standards for the communication of information about operational issues (e.g. location, estimated duration of outage) to and from BAs, LDCs, and shippers in anticipation of critical notices, OFOs or force majeure notices during extreme weather Status: Started	3 rd Q, 2024	Joint WGQ, WEQ, and RMQ Business Practice Subcommittees
ii. Develop and/or modify business practice standards for the communication of aggregated volume data or confirmed scheduled quantities for key upstream receipt points on the pipeline system during extreme cold weather events without endangering sensitive commercial information Status: Started	3 rd Q, 2024	Joint WGQ, WEQ, and RMQ Business Practice Subcommittees

Provisional Activities

1. Optional Work to Extend Existing Standards

- a) Develop business practice standards, as needed, to support purchase and sale transactions related to hydrogen

2. Pending Regulatory or Legislative Action

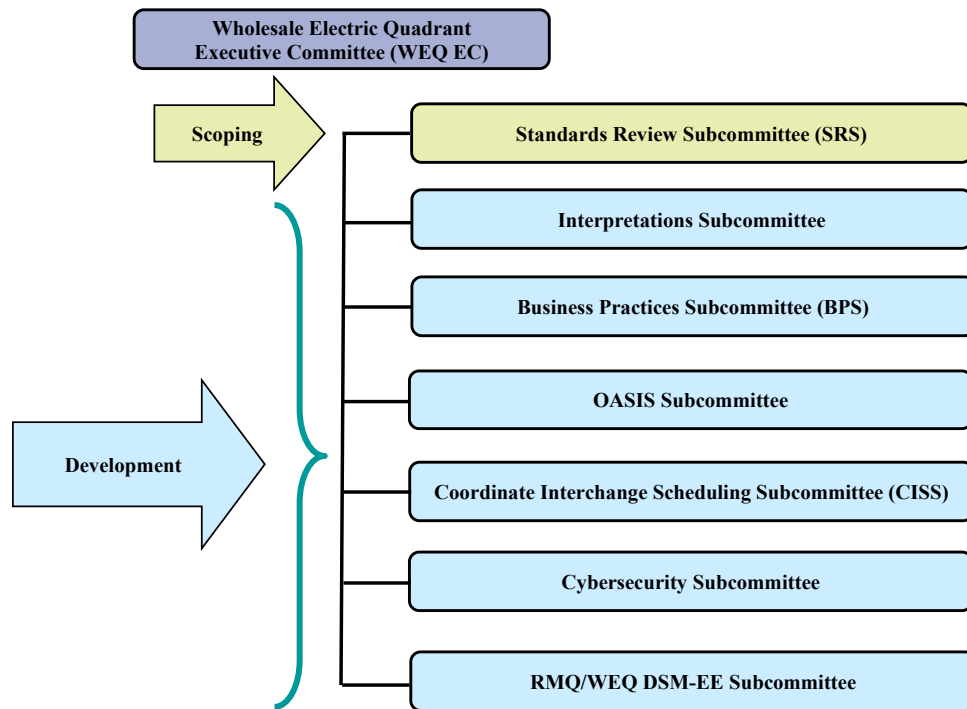
- a) Determine potential NAESB action if needed to support FERC Notice of Proposed Policy Statement Carbon Pricing in Organized Wholesale Electricity Markets in Docket No. AD20-14-000
- b) Determine potential NAESB action, if needed, to support industry implementation of any FERC Order regarding the FERC’s Notice of Proposed Rulemaking Building for the Future Through Electric Regional Transmission Planning and Cost Allocation and Generator Interconnection in Docket No. RM21-17-000
- c) Determine potential NAESB action, if needed, should FERC take action on WEQ Version 004

3. Gas-Electric Market Coordination

**NORTH AMERICAN ENERGY STANDARDS BOARD
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Item Description	Completion ¹	Assignment ²
a) Develop and/or modify business practice standards, as needed, to address any proposed recommendations for standards development resulting from the NAESB Gas-Electric Harmonization Forum		

WHOLESALE ELECTRIC QUADRANT EXECUTIVE COMMITTEE AND SUBCOMMITTEE STRUCTURE



NAESB 2024 WEQ EC and Subcommittee Leadership:

Executive Committee (EC): Joshua Phillips (Chair) and Ron Robinson (Vice Chair)

Standards Review Subcommittee (SRS): Ron Robinson

Business Practices Subcommittee (BPS): Joshua Phillips and Lisa Sieg

Open Access Same Time Information System (OASIS) Subcommittee: Rob Arbitelle, Ken Quimby, Matt Schingle, J.T. Wood and Mike Steigerwald

Coordinate Interchange Scheduling Subcommittee (CISS): Zack Buus and Nik Browning

Cybersecurity Subcommittee: Jim Buccigross

Inactive Subcommittees:

e-Tariff Joint WEQ/WGQ Subcommittee (e-Tariff): Keith Sappenfield (WGQ)

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Appendix G: NAESB 2024 WEQ Annual Plan

Interpretations Subcommittee: Vacant
Demand Side Management-Energy Efficiency (DSM-EE) Subcommittee (RMQ/WEQ): Vacant
FERC Forms Subcommittee (WEQ/WGQ): Leigh Spangler (WGQ), Dick Brooks (WEQ)

End Notes WEQ 2024 Annual Plan:

¹ Dates in the completion column are by end of the quarter for completion by the assigned committee, subcommittee or task force. The dates do not necessarily mean that the standards are fully staffed to be implementable by the industry, and/or ratified by membership. If one item is completed earlier than planned, another item can begin earlier and possibly complete earlier than planned. There are no begin dates on the plan.

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