



NORTH AMERICAN ENERGY STANDARDS BOARD

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February 24, 2006
Filed Electronically

The Honorable Magalie Salas
Secretary
Federal Energy Regulatory Commission
888 First Street N.E.
Washington, D.C. 20585

RE: Docket No. RM05-28-000, "NAESB Final Report on the Efforts of the Gas-Electric Interdependency Committee"

Dear Ms Salas:

The North American Energy Standards Board ("NAESB") provides the final report to the Federal Energy Regulatory Commission ("FERC" or "Commission") in Docket No. RM05-28-000, "NAESB Report on the Efforts of the Gas-Electric Interdependency Committee."

Please note that we are filing this report electronically in Adobe Acrobat® Print Document Format (.pdf). All of the documents are also available on the NAESB web site (www.naesb.org). Please feel free to call me at (713) 356-0060 or refer to the NAESB website should you have any questions or need additional information regarding this report.

Respectfully submitted,

Rae McQuade
President and COO, North American Energy Standards Board

cc: Mr. M. Maassel, NAESB Chairman and CEO
Mr. William P. Boswell, NAESB General Counsel
Mr. Jim Templeton, Gas-Electric Interdependency Committee Chair



North American Energy Standards Board
Gas and Electric Interdependency Final Report
February 24, 2006

Below is the final status report of the NAESB Gas-Electric Interdependency Committee (GEIC) and is supplemental to the June 27, 2005 report submitted to the Federal Energy Regulatory Commission ("Commission" or "FERC") in Docket No. RM05-28-000.

BACKGROUND¹

In a December 2004 letter from Chairman Wood to Michael Desselle², the chairman noted that the January 2004 cold snap in New England highlighted the need for better coordination between the natural gas pipelines and the electric grid, including Regional Transmission Organizations (RTOs)/Independent System Operators (ISOs) and gas-fired power generators. He noted that he was pleased to see the efforts underway by NAESB to develop business practices in both industries that would alleviate the coordination problem and be in place for the next winter season.

On June 27, 2005 a report was submitted to the Commission which included communication standards between natural gas transmission service providers and power generators and will be included in the next published version of both the Wholesale Electric Quadrant (WEQ) and Wholesale Gas Quadrant (WGQ) standards (version 1 and version 1.8, respectively). Prior to publication, they are available as final actions from the NAESB web site³ related to the request from which they originated – R04021.⁴ Also in the report, the NAESB Gas-Electric Interdependency

¹ While the GEIC effort began in late 2004, a related and precursor NAESB effort began in 2003 with the creation of the NAESB Gas-Electric Coordination Task Force. This group prepared both an interim and final reports which were filed with the Commission on April 16, 2004 and November 30, 2004, respectively. Both reports included a discussion point list as their key deliverable, but also included several presentations. The point list and presentation materials were used as reference materials by the GEIC in its work. The two reports can be accessed from the NAESB web site at: http://www.naesb.org/doc_view2.asp?doc=ferc041604.pdf and http://www.naesb.org/doc_view2.asp?doc=ferc113004.pdf.

² The Chairman's letter can be accessed from the NAESB web site at <http://www.naesb.org/protected/ferc121404.pdf>.

³ The final actions after ratification for request no. R04021 may be accessed from the NAESB web site at http://www.naesb.org/weq/weq_Final.asp and http://www.naesb.org/WGQ/wgq_Final.asp.

⁴ NAESB standards can be accessed in a number of ways. The standards are available for download in the protected area of the NAESB web site free of charge or can be purchased in electronic format from the NAESB Office. Access to the protected area of the NAESB web site is free to all current NAESB members as a benefit of NAESB membership, and non-members can register for home page access for \$3500 per year. The Commission has previously recognized that, "[I]t is common practice for standards organizations to charge for copies of their standards in order to defray the publishing costs as well as some of the administrative, legal, and other costs of

Committee of the Board of Directors (“GEIC”) identified thirteen issues and categorized them as (1) indicating policy direction and decisions from federal, state or provincial regulatory agencies or other groups, including issues between contractual parties, (2) appropriate for review for NAESB standards development, (3) appropriate to be forwarded to NERC for consideration for reliability standards development, (4) appropriate for review as regional issues, and (5) a national infrastructure concern (Attachment A of this report). For the majority of the issues identified there was more than one category assigned.

The conclusions reached on the issues identified pointed to the crucial need for extraordinary coordination among regulators, NERC, NAESB and industry participants of both the natural gas and electric wholesale markets. As the issues list demonstrated, many of the items required the attention of more than one of the groups, and that resolution of many of the items will be based on decisions neither made nor taken by NAESB. Specific to NAESB, before NAESB can move further in developing business practice standards to address the coordination of the two industries, policy direction and industry willingness for change is required – otherwise, NAESB may be in the position of developing business practices and striving to achieve industry consensus for standards that the industry is not convinced are needed. For the two outstanding requests R04016 (Energy Day assigned to both the wholesale gas and wholesale electric quadrants) and R04020 (Electric Market Timelines assigned to the wholesale electric quadrant); the requests have already been assigned to NAESB for action both by the NAESB Executive Committee and by the Joint Interface Committee. The requests have not been addressed at this time –through actions taken by the Board of Directors on June 22.

On June 22, 2005, the Board recognized that requests R04016 and R04020 were symptoms of many of the issues identified, and as such, charged the GEIC with the preparation of a standards development request that reflected the intent of both of these requests and included other aspects of gas-electric interdependency that were evident in the issues lists (such as issues #5, #10 and #12) and targeted for business practices development. The request, once developed, would be reviewed by the Board for inclusion in the NAESB Annual Plan, and would be processed through NAESB’s normal process for standards. An important direction from the Board in its instructions to the GEIC was that the members of the GEIC should ascertain a level of industry support for such actions anticipated by the request before standards development request is submitted. In summary, the committee members should not recommend actions in a standards request that they did not anticipate would garner sufficient industry support.

PROCESS USED BY THE NAESB GAS-ELECTRIC INTERDEPENDENCY COMMITTEE

The GEIC met seven times (August 16, September 8, October 6, October 24 and December 5, 2005 and January 11 and February 3, 2006) following the June 22 Board of Directors meeting. The meetings were open and posted on the NAESB web site for all interested parties. Observers were welcomed, and did attend the meetings. Notes were taken for all meetings and posted on the web site along with agendas and work papers⁵. The board committee is considered a named committee of NAESB – the members are named by the Chairman of the Board of Directors and are either board members, members of the NAESB Advisory Council, or specifically requested to join because of their knowledge of the markets. The work products of the committee were prepared by the committee members with staff administrative support and forwarded to the Board of Directors for review and approval. The GEIC is chaired by Jim Templeton, a NAESB Board member and former chairman of the organization.

developing the standards.” In addition to the standards themselves, all agendas, working papers, and subcommittee meeting minutes are publicly accessible on the NAESB web site free of charge.

⁵ The notes of the GEIC meetings can be found in Appendix A and are located on the NAESB web site at the following page: http://www.naesb.org/gas_electric_interdependency.asp.

CONCLUSIONS REACHED BY THE NAESB GAS-ELECTRIC INTERDEPENDENCY COMMITTEE

In discussions of possible standards development efforts, six potential activities were identified where existing standards should be reexamined to determine whether updates or new business practices could be written to further improve the interaction between the gas and electric industries. The six activities are an outgrowth of the analysis of 13 issues described in the June 27 report to the FERC on gas-electric interdependency⁶, most of which require policy direction if they are to be undertaken. As a link to the issues identified on June 27 (Attachment A), the six activities identified in this report are the items where the GEIC has determined that standards development by NAESB might be explored. Similarly, these six activities identified have policy implications. During the identification of the potential development activities, general concerns were voiced by committee members on the interaction of the wholesale gas and electric quadrants and the commitment of both groups to come equally to the table with solutions. The status of the two outstanding requests (R04016 and R04020) was also discussed.

Additionally, during discussions of these possible efforts, concerns were identified that may pose roadblocks in garnering sufficient industry support to proceed. Modification by the gas industry of established processes and practices to address problems that affect both industries will not necessarily improve the gas/electric interface unless the electric industry also works to address the electric problems. If modifications are made, they should be made in both the gas and electric industries to ensure both are working to improve gas/electric coordination.

The six efforts identified that could be included in a standards development request were:

1. Consistent with the 2/27/04 Order in Docket No. RP04-151-000⁷ and the Policy Statement in Docket No. PL02-6 issued on 1/19/06, consider the development of standards to support Capacity Release pricing on an index⁸ for those pipelines that have the FERC authority to enter into negotiated rates and discount capacity on an index basis. The concerns raised included:
 - Removal of the pricing cap to make it more attractive for firm gas transportation holders to release the capacity to others was raised during the discussion, but it would require regulatory policy changes and is specifically not anticipated as part of this item.
2. Review the possibility of adding an additional intraday nomination cycle with bumping rights to provide more flexibility to shippers, including power generators, with firm transportation rights such that they can nominate for natural gas supporting their market clearing times.⁹ Current problems exist within the day-ahead and real-time power markets for nominations (See the graphical depiction of the electric timelines to the gas nomination timelines as Attachment B). Tennessee Valley Authority and others have noted that this problem may have been exacerbated by some pipelines' decisions to move to hourly and daily balancing; but others have remarked that the GEIC has not reached this conclusion. Technological advances make additional nomination cycles and

⁶ NAESB prepared and submitted a report on June 27, 2005, in Docket No. RM05-28-000, "Standards for the Coordination of Business Practices Between Public Utilities and Interstate Natural Gas Pipelines," which included 10 communication standards between transporters of natural gas and power generation facilities as well as 13 coordination issues identified, most of which had policy implications.

⁷ The referenced order can be accessed from the FERC web site (elibrary function from <http://www.ferc.gov>, or <http://elibrary.ferc.gov/idmws/nvcommon/NVViewer.asp?Doc=10074967:0>)

⁸ A work paper was independently provided by National Fuel Gas Distribution, and is attached (Attachment C).

⁹ "Firm shippers are paying reservation charges for priority rights and those rights should include the right to have a nomination become effective as early as possible on the gas day following the nomination. Interruptible shippers...should not be able to prevent firm shippers from having their nominations take effect at the earliest possible time." FERC Docket No. RM96-1-007, Order No. 587-G, (April 16, 1998). See also FERC Docket No. RM96-1 and FERC Docket No. RM96-1 Order Nos. 587-F, 636, and 637.

changing the last "no bump" cycle to later in the day potential feasible solutions. As with #4 below, consensus has not been reachable when determining the need and amount of change required by each of the two industries to develop workable solutions. The concerns raised were:

- Adding an additional cycle may have impacts on the timing of the existing nomination cycles.
 - The timing of the various nomination cycles may have different impacts on different parties and/or other NAESB standards, which must be considered before any changes are made.
 - Additional Wholesale Electric Quadrant standards may be needed to take advantage of a revised gas nomination cycle.
 - The proposed business practices may be more acceptable to the gas industry if developed in conjunction with Item 4 below.
3. Consistent with the 11/22/05 Order in Docket Nos. RP06-69-000 and RP06-70-000¹⁰, review the ability of pipelines to shift gas for primary firm transportation within a pipeline path without having to re-offer as secondary firm transportation service. The concerns raised were:
- Current no bump rules limit firm customers' ability to divert gas to another market mid-day without reallocation. If pipelines could be operationally indifferent, then they could switch deliveries without facing the equity issues that arise for those customers who were not originally scheduled because they did not contract for firm transportation, but delivery is switched from firm transportation customers to customers who also did not contract for firm transportation. However, this may conflict with current tariff and policy equity issues. Any business practices created must be non-discriminatory.
 - If it is determined that this function is appropriate, policy changes may be required.

Explanation of a possible implementation:

Customers who have scheduled their primary firm capacity through a point of restriction may not divert their nomination after the timely nomination deadline to a new delivery point, even if the path of the gas through the restriction does not change, just the delivery or receipt point. A customer, who wishes to change a delivery from his storage point to his city gate, risks losing his transportation priority because the pipeline is obligated to treat any change in a nomination as a new nomination requiring rescheduling with other new intra-day nominations. Revised nominations could be allowed on the same contract when (1) the intra-day nomination has the same scheduling priority that is being scheduled and could be allowed to flow on the same Gas Day as the intra-day nomination through a posted point of restriction, even if subject to a partial restriction, and (2) the nomination does not result in a net increase in the total volume scheduled under the contract though the posted point of restriction. These conditions would ensure that scheduled service for other customers through a restriction is not affected by the intra-day nomination.

Example 1: The customer has 100 dekatherms scheduled to flow from a primary receipt point through the posted point of restriction to a primary delivery point. Under the same contract, the customer then requests a nomination change to move 50 of the 100 dekatherms to a secondary delivery point that is outside its Transportation Path but still through the posted point of restriction. Under the enhanced nomination procedures proposed herein, this nomination change would be allowed because the intra-day nomination (i) has a scheduling sequence priority that is being scheduled and allowed to flow, and (ii) would not change the total quantity of gas scheduled to flow through the posted point of restriction under the same contract.

¹⁰ The referenced orders can be accessed from the FERC web site (elibrary function from <http://www.ferc.gov>, or <http://elibrary.ferc.gov/idmws/nvcommon/NVViewer.asp?Doc=10887607:0> (RP06-69) and <http://elibrary.ferc.gov/idmws/nvcommon/NVViewer.asp?Doc=10887606:0> (RP06-70)).

Example 2: The customer has 100 dekatherms scheduled to flow from a primary receipt point to a primary delivery point. Unlike Example 1, however, the customer's scheduled nomination of 100 dekatherms does not flow through the posted point of restriction. Instead, the customer's existing scheduled nomination has a path that is entirely upstream of the posted point of restriction. Under the same contract, the customer then requests a nomination change to move 50 of the 100 dekatherms to a secondary delivery point that is further downstream and outside its Transportation Path, resulting in a path through the posted point of restriction. Under the enhanced nomination procedures proposed herein, this nomination would not be allowed because it would result in an increase in the total quantity scheduled to flow through the posted point of restriction under that contract.

4. Review and modify the requirements for organized electric markets so that the markets clear in sufficient time to nominate within the existing gas nomination timelines (Attachment B provides a graphical representation of the differences in the gas and electric market timelines). Current timely gas nomination cycles occur long before the time when most organized electric markets clear their timelines and commit for the day ahead market. This disconnect leaves some generators two main options of either a) purchase and nominate gas transportation on a timely basis and risk not having their bid subsequently clear the power market or, b) wait to see if their bid clears the power market and risk relying upon the intraday gas transportation nominations without the level of assurances offered in the timely cycle for firm gas transportation services. Non-organized electric markets add another layer of timelines. As with #2 above, another debated point was the need and amount of change required by each of the two industries in coming to workable solutions. The concerns raised were:
 - It may be difficult for organized markets to be in compliance with this proposed business practice given the existing nomination timelines; the proposed business practices may be more acceptable to the electric industry if developed in conjunction with Item 2 above.
 - It will be necessary to gain consensus in the electric industry to standardize the electric timelines, each of which have been developed regionally. In the alternative, the electric industry can create business practices that support market clearing within the gas nomination cycles.
 - The ISOs and RTOs will need to make modifications to each of their separate processes to support NAESB business practices that require the electric markets to clear prior to the timely gas nomination timelines.
5. Require generators that offer into the day ahead market to have the appropriate commercial arrangements to fulfill the needed obligations. The concerns raised were:
 - Being too prescriptive as to how the obligations are met interferes with the risk management strategies of market participants.
 - To the extent this proposal needs to address reliability aspects of this issue, those concerns will be directed to NERC.
 - The issue of firm transportation as it relates to resource adequacy is being addressed as part of the proposed NERC Resource Adequacy Standard currently under development.
6. Develop the appropriate supporting definitions for new business practices for the Wholesale Electric Quadrant, including but not limited to definitions for: alternate fuel capability, usable alternate fuel capability, firm transportation service, firm sales service, firm supply, and "must run" generator. The concerns raised were:
 - In previous attempts, the Wholesale Electric Quadrant was unable to reach consensus on definitions of similar terms.
 - Although these definitions will apply to Wholesale Electric Quadrant, the definitions should be developed with the appropriate input from the Wholesale Gas Quadrant to ensure consistency with gas products.

As noted in the prior report of June 27, to accomplish the above standards development efforts will demand extraordinary coordination of the industry participants of both the natural gas and electric wholesale markets. Items 1-3 (all gas related) have previously cited policies or statements in individual pipeline tariffs that may support the standards development but may benefit from direction provided by the FERC to support the much needed consensus building. Items 4-6 do not have specific policies in place today, and would require direction from FERC if consensus within the two industries would be achievable.

As general comments to the above six efforts, for all efforts that were focused on wholesale gas efforts (items 1, 2 and 3), a general comment was made that the wholesale electric quadrant should come to the table with a willingness to also make changes to their process. It is the opinion of the committee members that the organized electric markets, such as the ISOs and RTOs and their stakeholder groups, may not be interested in working within NAESB to create the needed business practices. It is anticipated that their approach would be regional solutions developed individually. Along these lines, the electric market participants of the GEIC have not identified any sponsors for the efforts directed at the wholesale electric market (items 4, 5 and 6), and a broader outreach to Edison Electric Institute and other WEQ NAESB members is in order.

As noted, items 4- 6 require more effort from within the electric industry, including RTOs/ISOs. It is NAESB's role to develop commercial business practice standards, it is NERC's role, or the soon to be created Electric Reliability Organization (ERO), to develop reliability standards, and it is the ISO/RTO Council's role to operate electric transmission systems and administer markets consistent with the standards developed by NERC and NAESB. There is a sufficiently high degree of commercial, markets and reliability interdependence associated with items 4-6 such that the electric industry participants should work together to ensure as seamless a market structure as possible.

References in items 4-6 to NERC and the ISOs/RTOs is not intended to signal any abdication of NAESB's role or responsibility in these areas. Conversely, to ignore the need for the electric industry to address needed change will leave a "one-sided" GEIC report that offers only gas-related solutions. Therefore, it is important to ensure that this report is not perceived as "one-sided" offering gas related solutions without charging NAESB to find compatible solutions on both sides. As such, this report acknowledges the need for change on both the gas and the electric side, the respective role of each organization and the need to find a joint/collaborative solution where one impacts the other. These issues have been before the electric industry for quite some time. NERC identified interdependency issues years ago but no standards have yet resulted from their efforts. While participants in the electric industry (NERC, NAESB and the ISOs and RTOs) have collaboratively developed gas-electric communications standards as a first step, further collaboration on the more difficult issues has not occurred, despite NAESB's efforts to facilitate such a process, and it will require the Commission to provide guidance to the industry in the form of Commission rulemakings or orders benefiting the industry by streamlining the joint interface process¹¹ for assigning work.

For the two outstanding requests R04016 (Energy Day assigned to both the wholesale gas and wholesale electric quadrants) and R04020 (Electric Market Timelines assigned to the wholesale electric quadrant); the requests have already been assigned to NAESB for action both by the NAESB Executive Committees and by the Joint Interface Committee. At the Board meeting on June 22, the Board instructed the Executive Committees to not proceed with these requests even though they had been submitted, approved as within NAESB's scope, assigned to the appropriate quadrants and had also been approved by the Joint Interface Committee. The Board recognized that requests R04016 and R04020 were symptoms of many of the issues identified, and as such, delayed action on the requests. The two outstanding requests would be reconsidered by the Board for development after the GEIC had completed its analysis and prepared new standards development requests. It was anticipated that the new standards

¹¹ The joint interface process for assigning work to NERC or NAESB based on whether the development activity is predominantly of a commercial nature (NAESB) or reliability nature (NERC) is outlined in the Memorandum of Understanding between NERC, NAESB and the ISO-RTO Council, signed May 15, 2003, and can be accessed from the NAESB web site: http://www.naesb.org/pdf/memorandum_of_understanding.pdf.

requests would supersede and replace them. The submitters of the requests have agreed to withdraw them once the final report and/or request(s) for standards development is completed¹².

NEXT STEPS

In considering the development of new requests that would address one or more of the six development efforts identified by the GEIC, the concerns identified the potential need for regulatory policies, as these efforts are controversial and the ability to achieve substantial industry consensus is not certain. Because of this concern, the committee did not prepare requests for standards development as directed by the Board of Directors in June. Instead, the committee highlighted the six areas that may be beneficial for standards development, if the industry supports such development. It is the committee's opinion that the lack of industry support poses sufficient roadblocks to development and regulatory policy guidance is needed before further efforts can be undertaken. Instead of requests, the committee prepared this report, which was endorsed by the Board of Directors notationally on February 17, 2006¹³, and is being forwarded to the FERC as a final update report on gas-electric interdependency issues. With the Board approval of this report as a final update, the submitters are in the process of withdrawing their requests R04016 and R04020¹⁴, as the roadblocks noted above apply equally well to the requests. The GEIC efforts are considered complete with the submittal of this final report as endorsed by the Board of Directors to the FERC.

¹² On February 23, 2006, the NAESB office received confirmation that the requests would be withdrawn.

¹³ The Board of Directors tally of votes to endorse the GEIC report can be found in Appendix B. The vote was unanimous in support.

¹⁴ [Request No. R04016](#) to develop a standard definition for Energy Day was submitted to NAESB on May 25, 2004 by KeySpan Utility Services and Duke Energy Gas Transmission and assigned jointly to the Wholesale Gas Quadrant and Wholesale Electric Quadrant for standards development. The Joint Interface Committee voted to support its assignment to NAESB on September 21, 2004.

[Request No. R04020](#) to establish business standards relating to electric transaction scheduling and timelines was submitted to NAESB on June 29, 2004 by Tennessee Valley Authority and assigned to the Wholesale Electric Quadrant for standards development. The NERC/NAESB Joint Interface Committee voted to support its assignment to NAESB on January 18, 2005.

**NAESB Gas and Electric Interdependency Report
February 24, 2006**

Attachment A
Issues Identified in the NAESB June 27, 2005 Filing to FERC in Docket No. RM05-28-000

Issues Identified by the GEIC in its report filed with the FERC on June 27, 2005

#	Cat.	Description/Notes
1	2	<i>Issue:</i> Gas-fired generators are not communicating well with the pipelines, which may result in gas-fired power generation coming online and taking natural gas without the prior nomination of pipeline capacity or taking natural gas but not taken evenly across the 24 hour period for which the gas was nominated – which may cause operational issues for the natural gas pipelines. <i>Note:</i> NAESB is addressing part of this issue through the communication standards contained within this report, and as related to Request No. R04021.
2	1-3-4	<i>Issue:</i> Some gas fired generators will come online although they have been informed by the pipeline that the pipeline cannot support their burn rates. <i>Note:</i> This is a contractual and regulatory issue and may indicate that a monitor and/or “hotline” for violations are warranted. Incentives and/or penalties for load management/balancing could be a potential remedy.
3	1	<i>Issue:</i> Generally speaking, burning gas without authorization and/or replacing the gas back into the pipeline timely is an issue. <i>Note:</i> Terms are typically addressed in the contracts between the parties, thus making this issue a commercial one. The note as addressed in item 2 above is also applicable.
4	1-4-5	<i>Issue:</i> Many electric market designs allow generators to assume risk on the availability of interruptible transportation while relying on those same generators to provide power to the grid on a non-interruptible basis. Moreover, the economics are such that to maintain a competitive stance, independent power plants are disincented to purchase firm gas and/or pipeline capacity. In addition, many gas-fired plants were assumed to be available to serve in contra-seasonal peaks. This assumption may no longer be valid. <i>Note:</i> The infrastructure was initially designed for gas to be delivered to a city gate and is now being used to support, in many cases on an interruptible basis the requirements of power generators but does not provide enough interruptible capacity in some parts of the country to support such interruptible generation in conditions of extreme demand. However, several factors may warrant the assumption of risk in purchasing interruptible gas service, including the availability of flexible pipeline capacity, long term planning of supply of gas for generation uses, and fuel use diversity.
5	1-2-3-4	<i>Issue:</i> The relative timelines of electric markets and gas nominations creates a situation in which a generator can actually pay for firm gas transportation and yet only get lower-quality secondary service. <i>Note:</i> Because of the mismatches in timelines, the benefits of firm gas transportation service may not be achieved by the power generator. NAESB has a request, R04020 assigned which addresses the electric timelines and an energy day request that addresses some of the mismatch between the two markets. Work has not begun on either request to date, although both requests have been processed and assigned, including processing through the Joint Interface Committee for assignment to NAESB. However, this is also a regulatory concern -- the gas timelines are embedded in FERC regulations and both a regional and reliability concern because the reliability of the power grid depends on the electric schedules and the regional groups such as the ISOs and RTOs oversee the implementation of their respective market designs.

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Attachment A

Issues Identified in the NAESB June 27, 2005 Filing to FERC in Docket No. RM05-28-000

#	Cat.	Description/Notes
6	1-2-3-4	<i>Issue:</i> The ISO/RTO Council (IRC) has expressed concern that NAESB should not alter their market timelines through standard development as this is a regional implementation – not a national concern. <i>Note:</i> The issue raised by the IRC is addressed in part though NAESB Request No. R04020 on electric schedule timelines. It is also a regulatory concern because of the OASIS FERC regulations, and is both a NERC and RTO issue because reliability of the power grid depends on the electric schedules and the regional groups such as the ISOs and RTOs oversee the implementation of their market designs.
7	1-5	<i>Issue:</i> On cold days (i.e. on peak gas consumption days) there is not enough interruptible transportation (unused firm capacity of the contract holder) to meet the gas demand served through that type of transportation. This situation results from the statutory design that the gas industry builds pipelines and capacity based on firm contracts only. In recognition of this design, gas LDCs purchase their own "reserve" capacity in the form of additional firm pipeline service. This recognition, however, is not widespread in the electric market community, where some electric regulators have not been willing to give electric utilities cost recovery for the same level of "reserve" transportation for a peaking generator. <i>Note:</i> Power generators holding firm transportation agreements to meet peak demand would necessarily have unused capacity on pipelines when demand requirements are not at peak levels. LDCs have similar periods where capacity is not needed to meet their demand requirements.
8	1-5	<i>Issue:</i> Gas LDCs purchase their own "reserve" capacity in the form of additional firm pipeline service, but electric regulators have not been willing to give electric utilities cost recovery for the same level of "reserve" transportation for a peaking generator. <i>Note:</i> The infrastructure was initially designed for gas to be delivered to a city gate and is now being used to support, on an interruptible basis, the requirements of power generators. Purchasing firm service for peak day demand may lead to overbuilding¹⁵ the infrastructure where it can be expanded – so other services may be required.
9	1-5	<i>Issue:</i> Where voluntary arrangements between pipeline shippers could accommodate the real-time generation market (e.g. instantaneous diversion of gas from an LDC to an adjacent market) neither the pipeline nor releasers of capacity are allowed to charge short-term rates that would match the instantaneous market value of capacity to a peaking generator. Further, the ability of pipeline tariff terms (e.g., nomination cycles and release procedures) to accommodate such arrangements vary as to their flexibility. Modifications to policy would enable pipelines and releasers of capacity to charge peaking generators short-term rates. <i>Note:</i> Historically, pipelines have used a combination of firm pipeline capacity, pipeline contracts, storage, balancing, parking services and curtailment priorities to mitigate fluctuating load requirements. Pipeline tariffs are designed to insure reliable service to all customers, so any accommodation of such voluntary arrangements would require a process to be certain there was no adverse impact on other customers. Should such arrangements be incorporated into tariffs, business practices can be developed for support. As for rate flexibility, in the past the Commission has

¹⁵ Overbuilding can occur when the customer need for capacity is only intermittent or short-term (such as a peaking generator), thus creating significant amounts of empty space for the rest of the year. In that instance other services are needed to fill the gap in order to finance the cost of new capacity. In the case of electric generation typically the empty new capacity would be available at times when other firm capacity is also available meaning both would be discounted by the market. This would seriously undermine the financing of the new capacity.

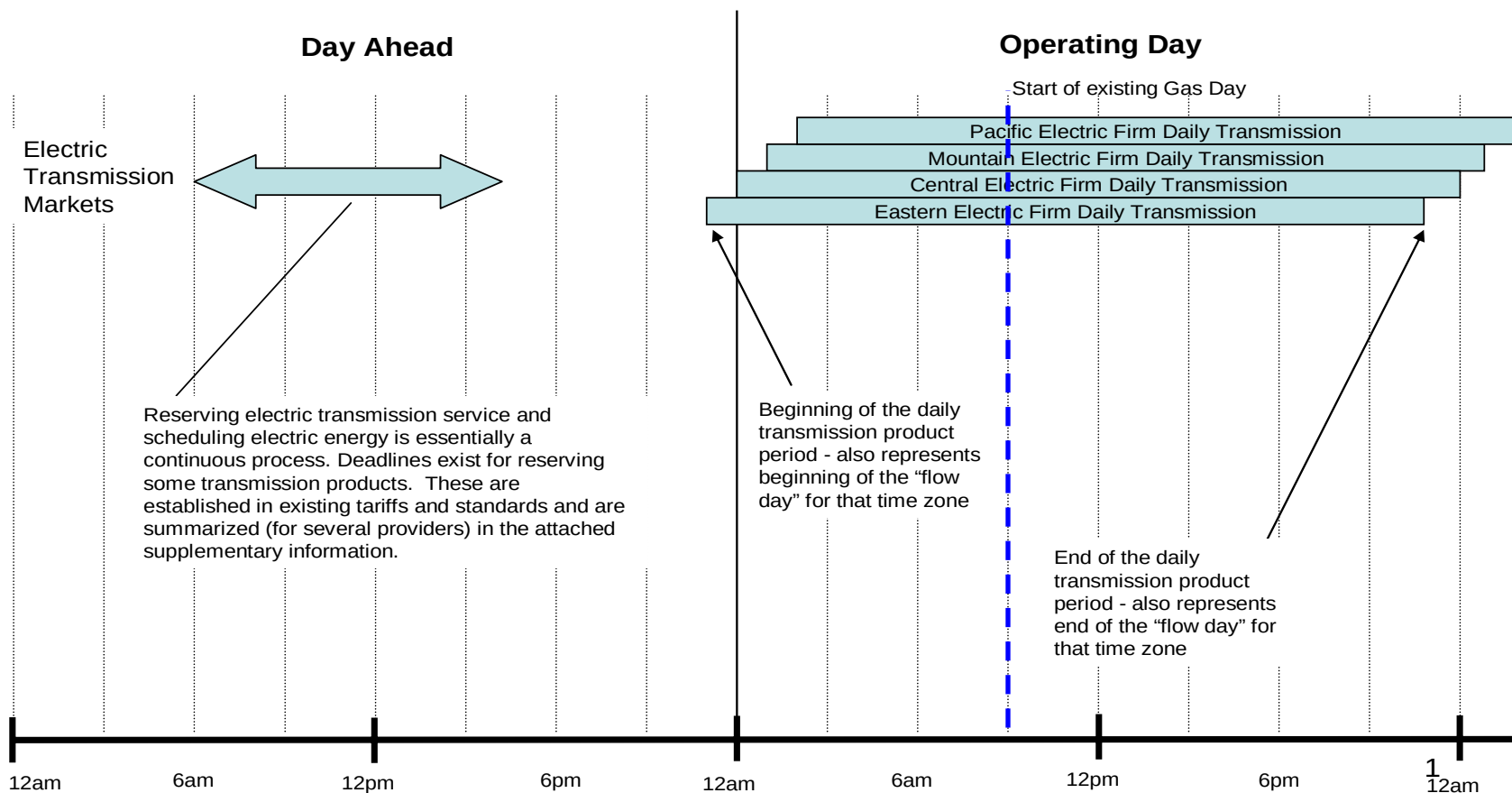
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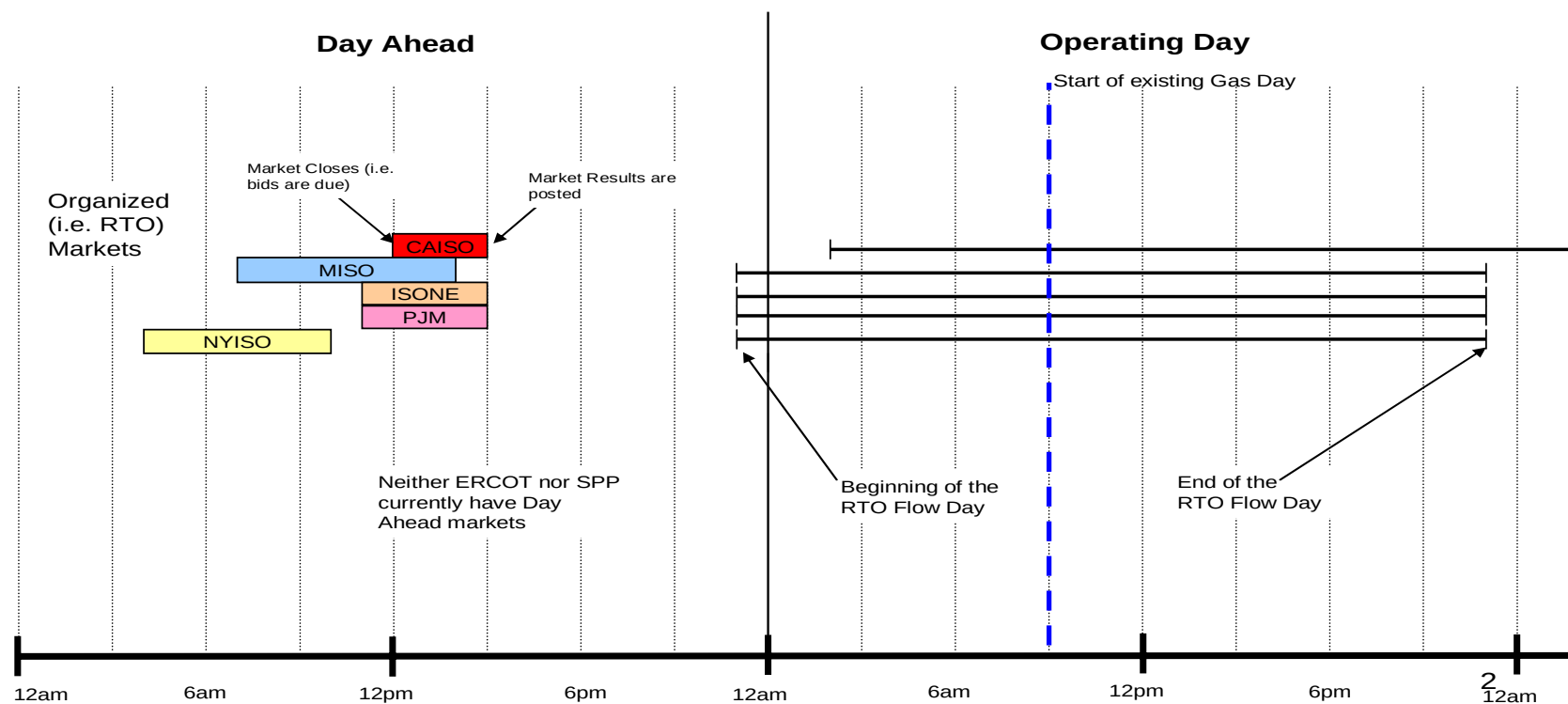
#	Cat.	Description/Notes
		experimented with market-based pricing for released capacity. Short-term monetizing of load price fluctuation (hourly, daily, weekly and seasonally) as well as daily and hourly volume accommodation may be appropriate for consideration.
10	1-2-5	<i>Issue:</i> If voluntary arrangements between pipeline shippers are created that accommodate the real-time generation market (e.g. instantaneous diversion of gas from an LDC to an adjacent market), business practices could be drafted that support the trade of gas from an LDC to an adjacent market. <i>Note:</i> Pipeline tariffs are designed to insure reliable service to all customers, so any accommodation of such voluntary arrangements would require a process to be certain there was no adverse impact on other customers. Should such arrangements be incorporated into tariffs, business practices can be developed for support.
11	1	<i>Issue:</i> If society is not willing to pay for firm transportation for peaking capacity, then regulators may want to consider, at the state and local level, an emergency response program that determines whether - at times of unanticipated extreme demand that requires emergency relief - it is better to interrupt electric demand being served on an interruptible basis or perhaps curtail other firm gas customers so that gas generators who have not contracted for firm services can be served for the "better social good." The curtailment activity would address emergency situations in which gas is being administratively redirected according to essential human needs criteria or other "social" factors. In the DOE Gas Disruption Analysis project, the ultimate end-game for state regulators is the valuation of essential human needs generation on a level playing field with other essential human needs users of gas. Redirecting gas from a customer with firm supply during a winter crisis, to a generator who ran out of interruptible supply should never happen. <i>Note:</i> This action would require regulatory changes and is a key aspect of the coordination difficulties between the gas and electric markets. The notion of end-use-based redirection of gas to a generator who just ran out because he didn't pay for firm supply, by taking gas away from someone else who did pay for firm supply, is not something that should ever happen just because winter came when the Weather Channel said it would.
12	1-2	<i>Issue:</i> Some pipelines or LDCs may not break down the volumes at meters where there is more than one contract volume due to the confidential nature and market sensitivity of the information. This information may be necessary for RTOs, ISOs and independent balancing authorities for grid operations where the gas is used for power generation. <i>Note:</i> Business practices can be written to report volume breakdowns so that volumes destined for electric generation can be identified after the confidential nature of the market data has been addressed.
13	1-2-3	<i>Issue:</i> In California ISO's comments to NAESB regarding its development of business practices for Request No. R04021, they discussed a network of informed contacts available as coordination issues arise. This contact approach may be applicable on other than a regional basis, such that all operating areas should have "Dedicated Lines" between key offices within that operating area and possibly adjoining connected areas to support informed and timely decision making. <i>Note:</i> Business practice standards can be written to implement a "hot line" that would respect any needed regional differences. Communication standards development was undertaken by NAESB and the results of that effort are presented in this report.

Current Processes Converted to Central Prevailing Time (CPT)



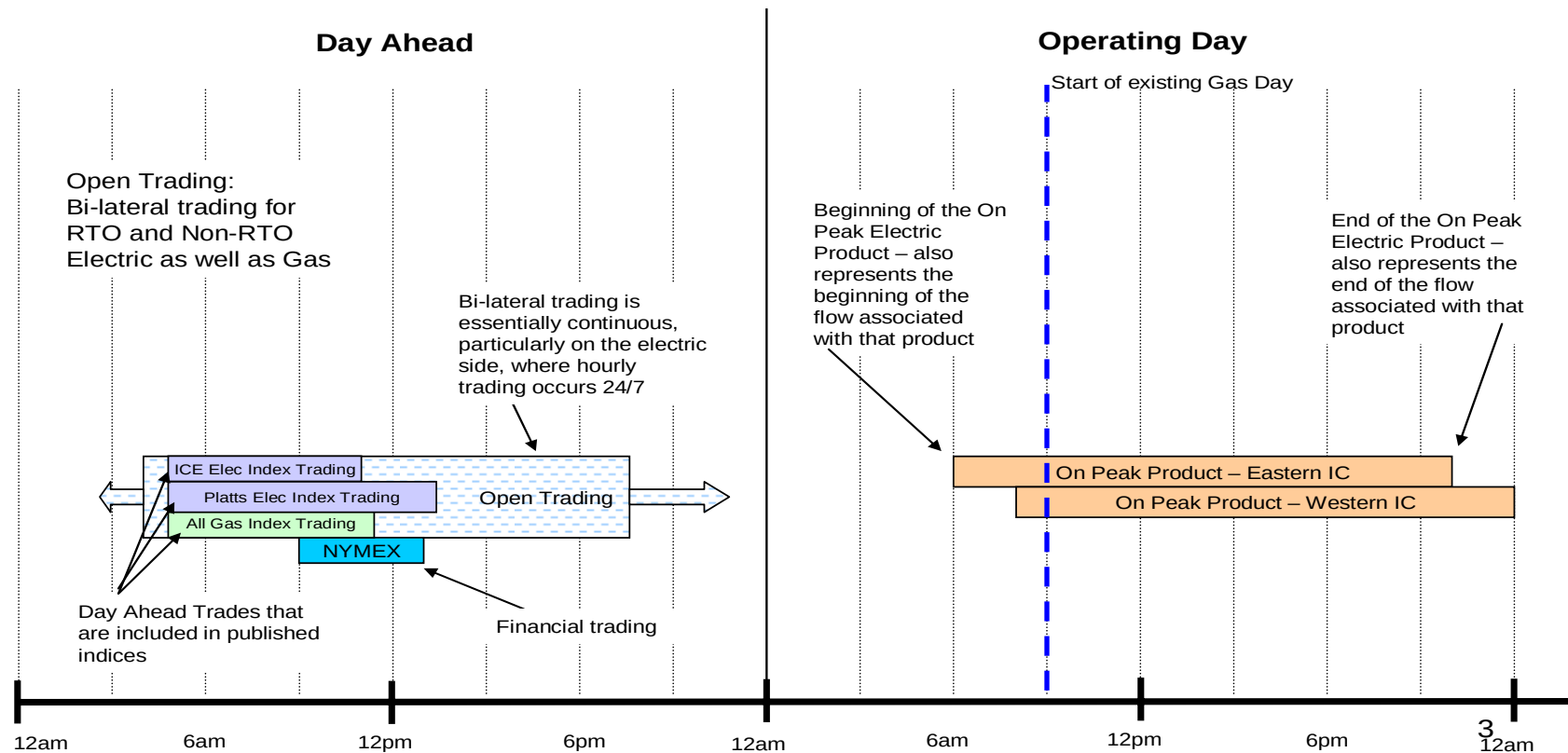
Attachment B
Gas-Electric Timeline Graphs

Current Processes -CPT



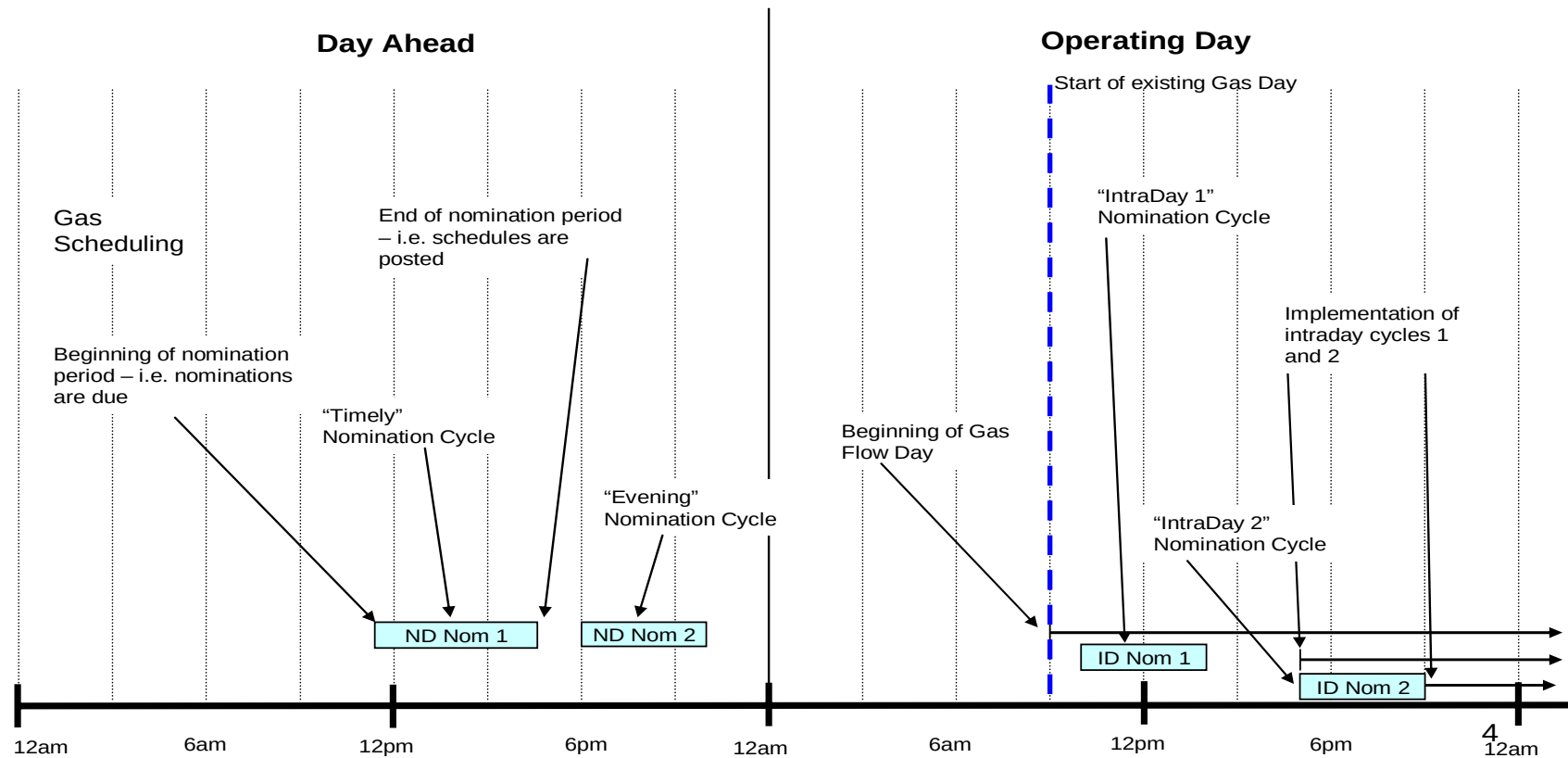
Attachment B
Gas-Electric Timeline Graphs

Current Processes - CPT



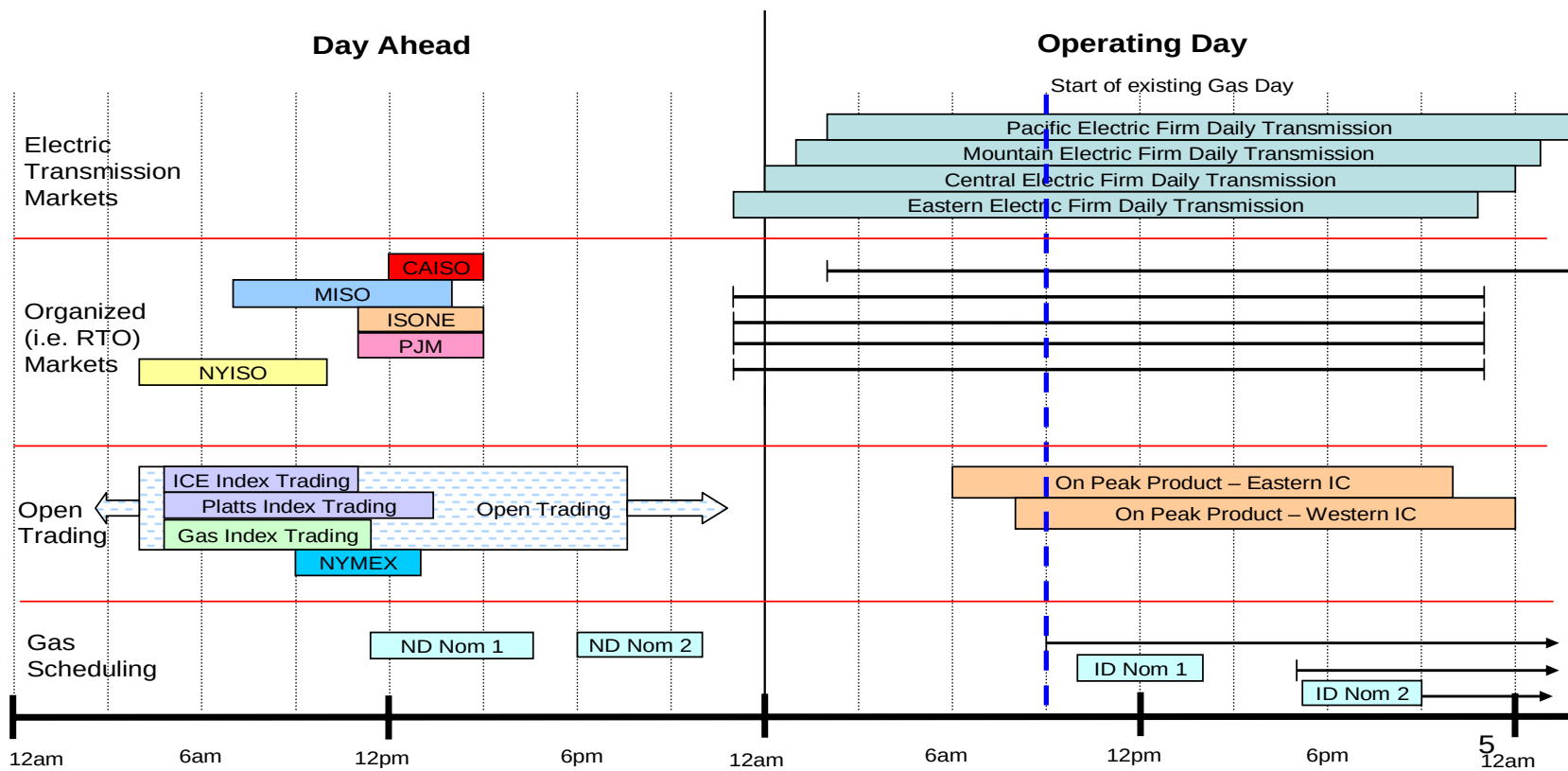
Attachment B
Gas-Electric Timeline Graphs

Current Processes - CPT

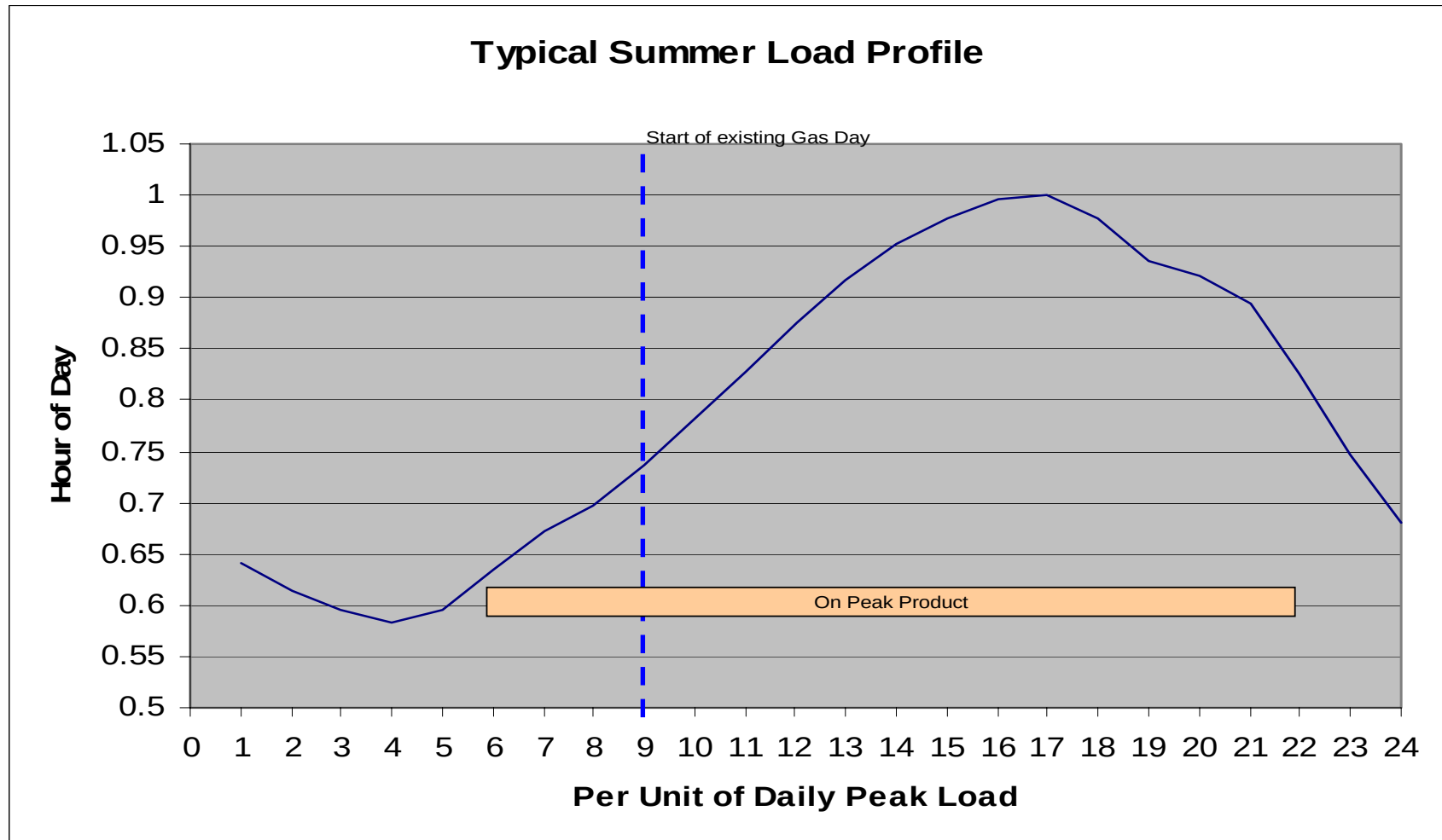


Attachment B
Gas-Electric Timeline Graphs

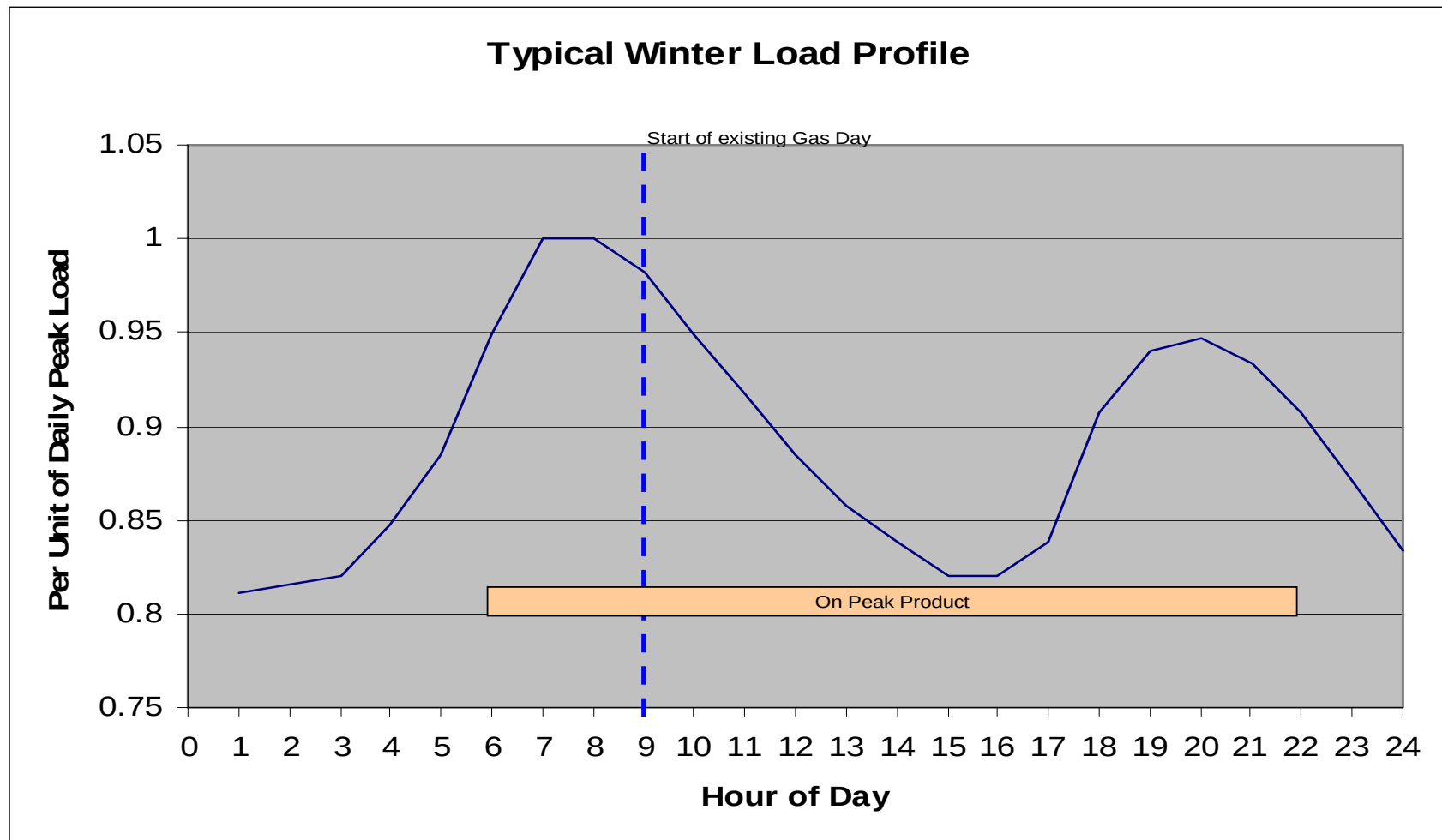
Current Processes - CPT



Attachment B
Gas-Electric Timeline Graphs



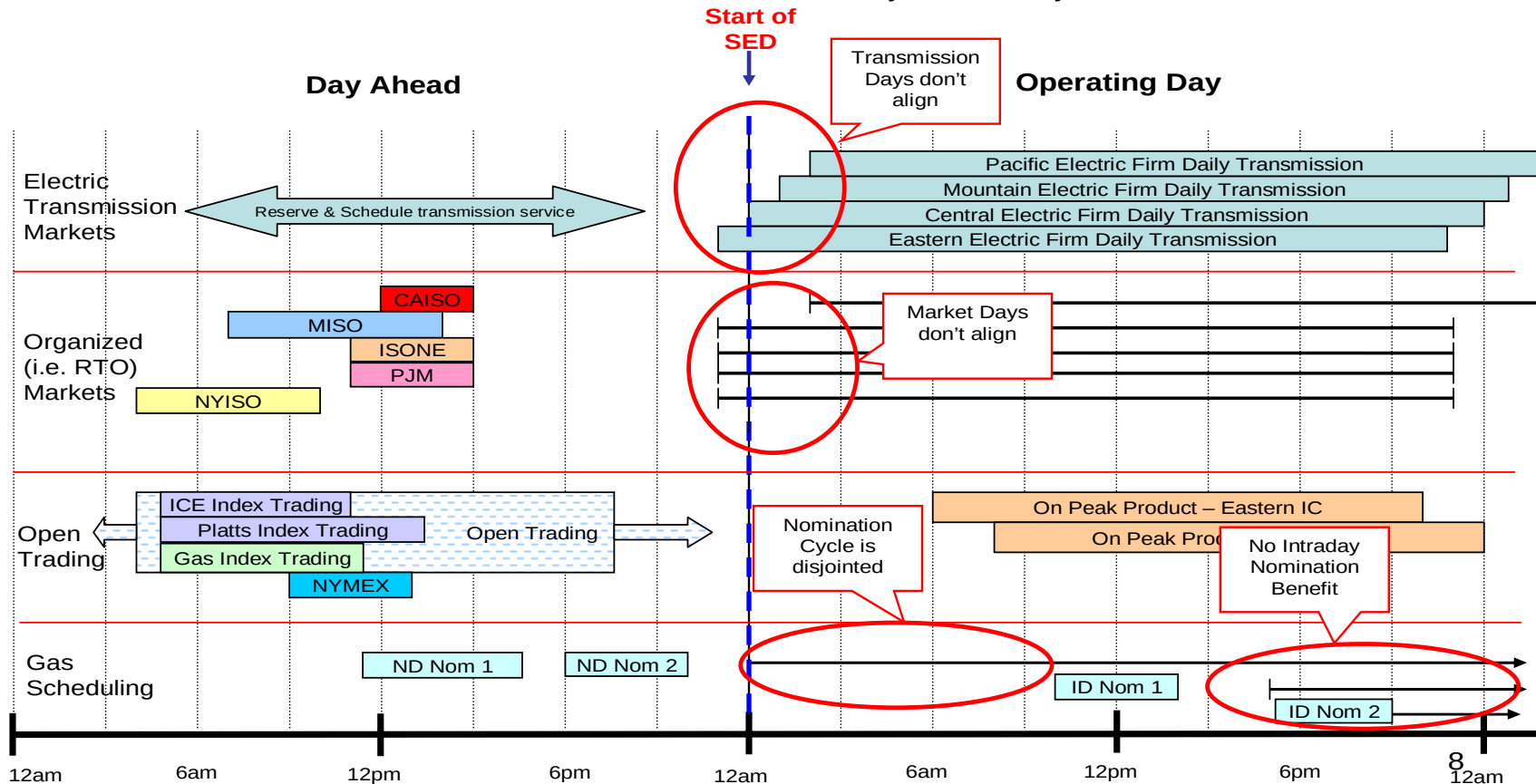
Attachment B
Gas-Electric Timeline Graphs



Attachment B
Gas-Electric Timeline Graphs

“As Requested” Standard Energy Day

With Other Processes as They Exist Today



**Attachment C
National Fuel Gas Distribution Work Paper on Item 1**

TO: J. Templeton, Chair, GEIC
FROM: M. Novak
DATE: August 16, 2005
RE: Proposed Standards Development - NAESB Report on WEQ and WGQ Business Practice Standards for Transmission Service Provider-Power Plant Operator Communications and the Gas and Electric Interdependency Report (June 27 Report)

Within the June 27 Report, Issue #9 and Issue #10, deal with diversion gas and/or capacity from LDCs to the real-time generation market. Issue #9 references market-based pricing and issue #10 references tariffs and development of business practices. Any attempt to monetize shipper releases of pipeline capacity in terms of real-time generation load price fluctuations is currently bound by the maximum tariff rates applicable to capacity, as well as bidding rules.

Current NAESB WGQ Standards governing capacity release are more restrictive on pricing beneath the maximum tariff rate than current Commission policy requires. As currently structured, NAESB WGQ Standard 5.3.26 requires the releasing shipper to determine whether bidding should take place in terms of dollars and cents or as a percentage of maximum rate. NAESB WGQ Standard 5.3.19 can be read to restrict re-releases to be on the same terms and basis as the primary release when a more current reading of Commission policy would say this is a matter between the releasing and replacement shipper subject to broader bidding rules and maximum tariff rate limits. Additionally, the standards can be read to restrict the form of releases to volumetric and reservation forms that at the time these standards were drafted, appeared to comport with all the options necessary.

In more recent years, pipelines have sold capacity at discounted rates where the effective rate was tied to a published price index. Commission policy allows that releasing shippers should be free to offer the same type of pricing arrangement that the pipeline offers. At least where pipelines offer discounts based upon price indices, Commission policy appears to support releasing shippers offering the same type of pricing in a capacity release.

To capture real-time generation load price fluctuations, a firm shipper (e.g. an LDC) should be able to propose a release rate based off a published electric price index. The rate would fluctuate each day between a releasing shipper specified floor and the maximum tariff rate. In theory, this would create an economic incentive to provide more short-term capacity to the gas-fired generation market because with the prospect of high release value, releasing shippers can explore replacement capacity alternatives that otherwise would not be cost-effective.

While no pipeline tariffs prohibit capacity release transactions based off published price indices, the NAESB Standards, which in most cases have been incorporated into pipeline tariff by reference, do not support index-based releases. NAESB standards should support such release transactions and if the Commission relaxed the prohibition on releases above the maximum applicable tariff rate, then standards can further evolve.

As a general matter, technology has progressed tremendously since the initial drafting of the NAESB WGQ Capacity Release Standards. Along with the evolution of Commission policy governing the capacity release market, there appears to be justification for GEIC considering development of a request for the WGQ to review and update its Capacity Release Standards.

Issues # 9 and #10 follow for reference.

**Attachment C
National Fuel Gas Distribution Work Paper on Item 1**

Selected Issues from June 27 Report

Issue #9: Where voluntary arrangements between pipeline shippers could accommodate the real-time generation market (e.g. instantaneous diversion of gas from an LDC to an adjacent market) neither the pipeline nor releasers of capacity are allowed to charge short-term rates that would match the instantaneous market value of capacity to a peaking generator. Further, the ability of pipeline tariff terms (e.g., nomination cycles and release procedures) to accommodate such arrangements vary as to their flexibility. Modifications to policy would enable pipelines and releasers of capacity to charge peaking generators short-term rates.

Note: Historically, pipelines have used a combination of firm pipeline capacity, pipeline contracts, storage, balancing, parking services and curtailment priorities to mitigate fluctuating load requirements. Pipeline tariffs are designed to insure reliable service to all customers, so any accommodation of such voluntary arrangements would require a process to be certain there was no adverse impact on other customers. Should such arrangements be incorporated into tariffs, business practices can be developed for support. As for rate flexibility, in the past the Commission has experimented with market-based pricing for released capacity. Short-term monetizing of load price fluctuation (hourly, daily, weekly and seasonally) as well as daily and hourly volume accommodation may be appropriate for consideration.

Issue #10: If voluntary arrangements between pipeline shippers are created that accommodate the real-time generation market ((e.g. instantaneous diversion of gas from an LDC to an adjacent market), business practices could be drafted that support the trade of gas from an LDC to an adjacent market.

Note: Pipeline tariffs are designed to insure reliable service to all customers, so any accommodation of such voluntary arrangements would require a process to be certain there was no adverse impact on other customers. Should such arrangements be incorporated into tariffs, business practices can be developed for support.

**NAESB Gas and Electric Interdependency Report
February 24, 2006**

**Attachment D
GEIC Member Roster**

TO: Posting on NAESB Web Site
FROM: Rae McQuade, NAESB Executive Director
RE: Board Gas-Electric Interdependency Committee – Named Board Members
DATE: November 3, 2004

The Board Gas-Electric Interdependency Committee is chaired by Jim Templeton. The named Board members and Advisory Council members that comprise the Board Gas-Electric Interdependency Committee are as follows:

Name	Organization	Quadrant	Phone	Email
Vicky Bailey	Johnston & Associates		202-659-8400	vbailey@johnstondc.com
Adrian Chapman	Washington Gas Light	WGQ	703-750-7677	achapman@washgas.com
Valerie Crockett	Tennessee Valley Authority	WGQ	423-751-6096	vjcrockett@tva.gov
Mark Crosswhite	Southern Company	WEQ	205-257-0472	macrossw@southernco.com
Michael Desselle	American Electric Power	WEQ	214-777-1083	mddesselle@aep.com
Pete Frost	ConocoPhillips Gas & Power Marketing	WGQ	202-833-0917	Pete.w.frost@conocophillips.com
Robert Gee	Gee Strategies		703-698-2033	racbud@ix.netcom.com
Joseph Hartsoe	American Electric Power Service Corp	WEQ	202-383-3430	jrhartsoe@aep.com
Leonard Haynes	Southern Company Services	REQ	404-506-0206	ljhaynes@southernco.com
Sheila Hollis	Duane Morris		202-776-7810	sshollis@duanemorris.com
Reed Horting	PECO Energy	WGQ	215-841-6410	Reed.horting@exeloncorp.com
Richard Kruse	Duke Energy Gas Transmission	WGQ	713-627-5368	rkruse@duke-energy.com
Mark Maassel	Northern Indiana Public Service Company (NiSource, Inc.)	RGQ	219-647-6400	mtmaassel@nisource.com
Lyn Maddox	Oxadel Consulting, LLC	WGQ	281-465-8539	linmaddox@sbcglobal.net
Randy Mills	ChevronTexaco	WGQ	713-752-7815	Randymills@chevrontexaco.com
Ron Mucci	Williams Power	WEQ	918-573-4981	Ron.m.mucci@williams.com
Mike Novak	National Fuel Gas Distribution	RGQ, WGQ	716-857-7884	novakm@natfuel.com
Marty Patterson	Cinergy CBU	WGQ	513-419-6935	Marty.patterson@cinergy.com
John Procario	Cinergy	WGQ	513-287-3657	jprocario@cinergy.com
Rick Smead	Navigant Consulting	WEQ	713-646-5029	rsmead@navigantconsulting.com
Larry Smith	Tennessee Gas	WGQ	713-420-4299	Larry.smith@elpaso.com

**NAESB Gas and Electric Interdependency Report
February 24, 2006**

**Attachment D
GEIC Member Roster**

Name	Organization	Quadrant	Phone	Email
	Pipeline Company			
Joe Stepenovitch		WGQ	813-289-5644	joestep@bellsouth.net
Jim Templeton	Comprehensive Energy Services	WGQ	713-759-6999	jrtemplton@aol.com
Ken Wiley	Florida Reliability Coordinating Council	WEQ	813-289-5644	kwiley@frcc.com
Jeanne Zaiontz	BP Energy	WEQ	281-366-4507	zaiontj@bp.com

NORTH AMERICAN ENERGY STANDARDS BOARD
Wholesale Electric Quadrant Report
Table of Appendices

Appendix A: **Notes from Gas-Electric Interdependency Committee Meetings
and Related Board of Directors Meeting Minutes**

GEIC Notes	August 16, 2005
	September 8, 2005
	October 6, 2005
	October 24, 2005
	December 5, 2005
	January 11, 2006
	February 3, 2006
Board Minutes:	December 13, 2005

Availability of Transcripts

Appendix B: **Board of Directors Tally Sheet**

Ballot and Announcement
Tally Sheet of Votes

APPENDIX A

Notes from Gas-Electric Interdependency Committee Meetings and Related Board of Directors Meeting Minutes

GEIC Notes	August 16, 2005
	September 8, 2005
	October 6, 2005
	October 24, 2005
	December 5, 2005
	January 11, 2006
	February 3, 2006
Board Minutes:	December 13, 2005

Availability of Transcripts



North American Energy Standards Board

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via email and posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Meeting on August 16, 2005
DATE: August 29, 2005

Dear Gas-Electric Interdependency Committee Members,

A meeting/conference call was held on August 16 to discuss areas where improvements in the interaction between the gas and electric industries can be implemented. The following notes resulted from the meeting.

- Administration:
- Ms. Kennedy read the antitrust advice and the agenda was adopted by consent.
- Discussion of solutions and concerns:
- After discussion, the committee identified the following possible solutions where existing standards should be reexamined and updated and/or where new business practices could be written to further improve the interaction between the gas and electric industries, and identified concerns with the development of the solutions:
 - Reexamine the WGQ Capacity Release standards to be more responsive to current market conditions within the framework of current policy, and base Capacity Release pricing on an index;
 - o The gas industry will be reluctant to modify established processes and practices to address problems that affect both industries unless the electric industry also works to address existing problems. Modifications should be made in both the gas and electric industries to ensure both are working to improve gas/electric coordination.
 - o Review of the pricing cap to make it more attractive for firm gas transportation holders to release the capacity to others may be an approach to consider, but it would take regulatory policy changes.
 - Review the existing gas nomination cycles and determine what kind of flexibility an additional no bump intraday nomination cycle would provide;
 - o While an additional nomination cycle could provide additional flexibility for the electric day-ahead market, the electric industry should determine whether a new no bump cycle would address coordination issues that exist with the real time market.
 - o A no bump cycle may require a change in FERC policy.
 - It will be difficult to gain consensus in the electric industry to



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standardize the electric timelines. In the alternative, the electric industry should review and modify the requirements for organized electric markets so that the markets clear in sufficient time to nominate within the existing gas nomination timelines;

- o NAESB standard business practices are voluntary. The ISOs and RTOs will likely be resistant to modifications to each of their separate processes to mirror NAESB business practices that require the electric markets to clear prior to the gas nomination timelines.
- Provide pipelines with the ability to shift gas for primary firm transportation within a pipeline path without having to re-offer as secondary firm transportation service;
 - o Current no bump rules limit firm customers' ability to divert gas to another market mid-day without reallocation. If pipelines could be operationally indifferent, then they could switch deliveries without facing the equity issues that arise for those customers who were not originally scheduled because they did not contract for firm transportation, but delivery is switched from firm transportation customers to customers who also did not contract for firm transportation. However, this would conflict with current tariff and policy equity issues. Any business practices created must be non-discriminatory.
- Require generators to contract for firm fuel supply and transportation if needed in order to declare availability for the day ahead market (this includes all types of fuel);
 - o Issue 4(d) on the agenda states that new gas fired electric generation is relied upon without the appropriate planning to ensure that contracts are prepared for adequate gas supply and associated gas transportation. The planning horizon deals with reliability issues that should be addressed by NERC.
- Develop the appropriate supporting definitions for new business practices, including but not limited to definitions for: alternate fuel capability, usable alternate fuel capability, firm transportation service, firm sales service, firm supply, and "must run" generator.

Action Items:

- The members of the GEIC will consult with other industry members to determine if there is broad consensus to move forward with the development of a standards request that includes the items listed above. If not, a status report may be more appropriate.
- It was determined that a report/request will take more time to develop thoroughly than the September 22 Board meeting date provides for. As such, at the upcoming Board meeting, a status report will be provided. The next set of GEIC conference calls will focus on the development of



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this report.

- Once the final report and/or request(s) for standards development is completed, Mr. Kruse stated that Duke Energy, as co-requestor of Request R04016, would consider withdrawing Request R04016 with the condition that it could be resubmitted. Ms. York concurred for Request R04020, submitted by TVA.

Next Meetings:

- The next meetings of the GEIC will take place via conference call. Ms. McQuade will circulate dates and times to the GEIC members so that a call can be scheduled during the week of September 6th-9th, 2005.

Adjournment

- The meeting adjourned at 1:05 PM Central.

Attendance:

Name	Organization	Attendance
Michael Desselle	AEP	Committee Member/In Person
Jim Templeton	Comprehensive Energy Services	Committee Member/In Person
Larry Smith	El Paso Eastern Pipe Line	Committee Member/In Person
Joe Stepenovitch	FRCC	Committee Member/In Person
Rick Smead	Navigant Consulting, Inc.	Committee Member/In Person
Lyn Maddox	Oxadel Consulting, LLC	Committee Member/In Person
Joel Dison	Southern Company	Committee Member/In Person
Adrian Chapman	Washington Gas	Committee Member/In Person
Richard Kruse	Duke Energy Gas Transportation	Committee Member/Phone
Mike Novak	National Fuel Gas Distribution	Committee Member/Phone
Reed Horting	PECO	Committee Member/Phone
Mark Gracey	El Paso Eastern Pipe Line	Observer/In Person
Kim Van Pelt	Panhandle Eastern Pipe Line	Observer/In Person
Christopher Burden	Williams Gas Pipeline	Observer/In Person
Dale Davis	Williams Gas Pipeline	Observer/In Person
Ron Snead for John Procario	Cinergy	Observer/Phone
Andy Dotterweich	Consumers Energy	Observer/Phone
Kathryn Burch	Duke Energy Gas Transportation	Observer/Phone
George Simmons	NiSource	Observer/Phone
Marjorie Perlman	Rochester Gas and Electric	Observer/Phone
Kathy York	TVA	Observer/Phone
Laura Kennedy	NAESB	Staff/In Person
Rae McQuade	NAESB	Staff/In Person
Veronica Thomason	NAESB	Staff/In Person



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via email and posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Conference Call on September 8, 2005
DATE: September 9, 2005

Dear Gas-Electric Interdependency Committee Members,

A conference call was held on September 8 to discuss the draft report to be provided to the Board of Directors on September 22, 2005. The following notes resulted from the meeting.

- Administration:
- Ms. Kennedy read the antitrust advice and the agenda was adopted by consent.
- Discussion of solutions and concerns:
- The committee reviewed the six potential solutions to improve the interaction between the gas and electric industries that were identified at the August 16 meeting. Modifications were made to these items and additional concerns were noted:
 - Reexamine the WGQ Capacity Release standards to be more responsive to current market conditions within the framework of current policy, and base Capacity Release pricing on an index;
 - o Committee members supported removal of the language that would provide for a wholesale reexamination of the WGQ Capacity Release standards, but agreed to preserve language to enhance the WGQ Capacity Release standards to accommodate index based pricing within the framework of current FERC policy and to update technology requirements within existing WGQ business practices;
 - o WGQ participants noted that in order to gain support from the gas industry to begin making the identified changes, the WEQ should provide a degree of reciprocity to modify electric processes;
 - Review the existing gas nomination cycles and determine what kind of flexibility an additional no bump intraday nomination cycle would provide;
 - o The solution should be corrected to state an additional intraday nomination cycle with bumping;
 - o At this time, there is not consensus throughout the industry to support the possibility of an additional intraday nomination cycle with bumping;
 - o In addition to adding an additional intraday nomination cycle with bumping, the WEQ may need to draft new business practices to take advantage of the additional cycle;



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- It will be difficult to gain consensus in the electric industry to standardize the electric timelines. In the alternative, the electric industry should review and modify the requirements for organized electric markets so that the markets clear in sufficient time to nominate within the existing gas nomination timelines;
 - o In order to garner industry consensus to move forward with this issue will require additional input from WEQ participants and an advocate within the electric industry to champion the need to review and modify the requirements of the organized electric markets;
- Provide pipelines with the ability to shift gas for primary firm transportation within a pipeline path without having to re-offer as secondary firm transportation service;
 - o Committee members supported listing this issue within the report for further development, and agreed this issue applied to receipt and delivery points;
- Require generators to contract for firm fuel supply and transportation if needed in order to declare availability for the day ahead market (this includes all types of fuel);
 - o Committee members supported modifying this issue for inclusion in the report so that generators that declare availability for the day ahead market would not necessarily have to contract for firm fuel supply and firm transportation, but would be required to have the appropriate arrangements to fulfill the needed obligations including fuel, transportation for that fuel, or alternate fuel sources to ensure commitments are met;
- Develop the appropriate supporting definitions for new business practices, including but not limited to definitions for: alternate fuel capability, usable alternate fuel capability, firm transportation service, firm sales service, firm supply, and “must run” generator;
 - o In order to move forward with development of these definitions, they should be included within the context of new WEQ business practice standards development.

Action Items:

- Ms. McQuade will distribute a draft report to the members of the GEIC that includes the modifications to the issues discussed during this conference call. Committee members will provide changes to the report via e-mail prior to the Board meeting on September 22.

Next Meetings:

- The GEIC will not schedule a meeting or conference call until after the Board meeting on September 22.

Adjournment

- The meeting adjourned at 10:33 AM Central.



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Attendance:

Name	Organization	Participation
Vicky Bailey	Johnston & Associates	Committee Member
Valerie Crockett	Tennessee Valley Authority	Committee Member
Michael Desselle	American Electric Power	Committee Member
Pete Frost	ConocoPhillips Gas & Power Marketing	Committee Member
Robert Gee	Gee Strategies	Committee Member
Joseph Hartsoe	American Electric Power Service Corporation	Committee Member
Richard Kruse	Duke Energy Gas Transmission	Committee Member
Randy Mills	ChevronTexaco	Committee Member
Ron Mucci	Williams Gas Pipeline	Committee Member
Mike Novak	National Fuel Gas Distribution	Committee Member
Rick Smead	Navigant Consulting	Committee Member
Larry Smith	El Paso Eastern Pipelines	Committee Member
Jim Templeton	Comprehensive Energy Services	Committee Chair
Ken Wiley	Florida Reliability Coordinating Council	Committee Member
Kathryn Burch	Duke Energy	Observer
Dale Davis	Williams Gas Pipeline	Observer
Joel Dison	Southern Company	Observer
Mark Gracey	Tennessee Gas Pipeline Company	Observer
Kim Van Pelt	Panhandle Eastern Pipe Line	Observer
Laura Kennedy	NAESB	Staff
Rae McQuade	NAESB	Staff



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via email and posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Conference Call on October 6, 2005
DATE: October 11, 2005

Dear Gas-Electric Interdependency Committee Members,

A conference call was held on October 6 to make edits to the draft report to be provided to the Board of Directors on December 13, 2005. The following notes resulted from the meeting.

- Administration:
- Ms. Kennedy read the antitrust advice and the agenda was adopted by consent.
- Review comments on draft report:
- The committee reviewed the report drafted as a result of the conference call on September 8. Suggested modifications to the draft report were submitted by Mr. Smead, Mr. Mucci, Mr. Maddox, Mr. Templeton, Mr. Smith and Mr. Kruse.
 - The committee reviewed all of the comments submitted and agreed on several modifications to the draft report.
 - The draft report that includes all of the modifications made during the call will be distributed to all of the GEIC members in redline format for review and additional comment.
 - The committee members agreed that the committee would not develop specific requests for standards development, but recognized that the six items in the report could be included in requests submitted by individual companies, if they chose to do so.
 - Once the report is finalized by the committee, it will be forwarded to the Board for approval. Once the Board approves the report, it will be forwarded to the FERC as noted in the submittal made on June 27. The commission is expecting the report at or near yearend.
- Action Items:
- Ms. McQuade will send the draft report with the modifications made during the conference call in redline format to the GEIC members via e-mail.
 - The GEIC members will submit additional modifications of the report for review during the next conference call.
 - The final report will be submitted to the Board of Directors for approval at its December 13, 2005 meeting. If the Board approves the report, it will be submitted to the FERC.
- Next Meetings:
- The GEIC will schedule a conference call during the week of October 24th. NAESB will circulate potential dates and times to the GEIC members and schedule the call based on feedback.



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Adjournment

- The meeting adjourned at 10:24 AM Central.

Attendance:

Name	Organization	Participation
Valerie Crockett	TVA	Committee Member
Pete Frost	Conoco/Phillips	Committee Member
Richard Kruse	Duke Energy Gas Transmission	Committee Member
Mike Novak	National Fuel Gas Distribution	Committee Member
Rick Smead	Navigant Consulting	Committee Member
Larry Smith	Tennessee Gas Pipeline	Committee Member
Joe Stepenovitch	FRCC	Committee Member
Jim Templeton	Comprehensive Energy Services	Committee Chair
Christopher Burden	Williams Gas Pipeline	Observer
Joel Dison	Southern Company	Observer
Gloria Ogenyi	Conectiv Energy	Observer
Laura Kennedy	NAESB	Staff
Rae McQuade	NAESB	Staff
Veronica Thomason	NAESB	Staff



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via posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Conference Call on October 24, 2005
DATE: November 1, 2005

Dear Gas-Electric Interdependency Committee Members,

A conference call was held on October 24 to finalize the draft report to be provided to the Board of Directors on December 13, 2005. The following notes resulted from the meeting.

- Administration:
- Ms. Kennedy read the antitrust advice and the agenda was adopted by consent.
- Review comments received and finalize draft report:
- The committee reviewed the report drafted as a result of the conference call on October 6, and made minor modifications to the draft report.
 - Mr. Kruse, as submitter of Request No. R04016, and Ms. Crockett, as submitter of Request No. R04020¹ agreed that language should be drafted for inclusion in the Next Steps section to state that upon approval of the report by the Board of Directors, Request Nos. R04016 and R04020 were withdrawn.
 - The draft report that includes all of the modifications made during the call will be distributed to all of the GEIC members in redline format for a final review.
 - Once the report is finalized by the committee, it will be forwarded to the Board for approval. Once the Board approves the report, it will be forwarded to the FERC as noted in the submittal made on June 27. The commission is expecting the report at or near yearend.
- Action Items:
- Ms. McQuade will draft the new language in the Next Steps section, and send the draft report with the modifications made during the conference call in redline format to the GEIC members via e-mail.
 - The final report will be distributed via e-mail to the entire Board of Directors prior to the December 13 Board Meeting. The report will include the roster of the GEIC members.

¹ Request No. R04016 to develop a standard definition for Energy Day was submitted to NAESB on May 25, 2004 by KeySpan Utility Services and Duke Energy Gas Transmission and assigned jointly to the Wholesale Gas Quadrant and Wholesale Electric Quadrant for standards development. The Joint Interface Committee voted to support its assignment to NAESB on September 21, 2004.

Request No. R04020 to establish business standards relating to electric transaction scheduling and timelines was submitted to NAESB on June 29, 2004 by Tennessee Valley Authority and assigned to the Wholesale Electric Quadrant for standards development. The NERC/NAESB Joint Interface Committee voted to support its assignment to NAESB on January 18, 2005.



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- The final report will be submitted to the Board of Directors for approval at its December 13, 2005 meeting. If the Board approves the report, it will be submitted to the FERC.

Adjournment

- The meeting adjourned at 10:30 AM Central.

Attendance:

Name	Organization	Participation
Valerie Crockett	Tennessee Valley Authority	Committee Member
Richard Kruse	Duke Energy Gas Transmission	Committee Member
Ron Mucci	Williams Gas Pipeline	Committee Member
John Procario	Cinergy	Committee Member
Rick Smead	Navigant Consulting, Inc.	Committee Member
Jim Templeton	Comprehensive Energy Services	Committee Chair
Kathryn Burch	Duke Energy Gas Transmission	Observer
Dale Davis	Williams Gas Pipeline	Observer
Joel Dison	Southern Company	Observer
Mark Gracey	Tennessee Gas Pipeline	Observer
Marjorie Perlman	Energy East Management	Observer
Steve Zavodnick	Baltimore Gas & Electric	Observer
Laura Kennedy	NAESB	Staff
Rae McQuade	NAESB	Staff



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via posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Conference Call on December 5, 2005
DATE: December 9, 2005

Dear Gas-Electric Interdependency Committee Members,

A conference call was held on December 5 to provide an opportunity for FERC staff to make informal comments on the 10-28-05 draft of the GEIC report. The following notes resulted from the meeting:

Administration: • Ms. Kennedy read the antitrust advice and the agenda was adopted by consent.

Q & A session with FERC Staff and Drafters of the GEIC Report: After discussion with FERC Staff, the drafters of the report agreed to make the following changes to the GEIC Report:

- **Item 1:** Item 1 should be modified to specify what action can be taken to enhance the standards to support Capacity Release pricing on an index basis. Mr. Novak cited the February 27, 2005 FERC Order in Docket No. RP04-151-000 as the current policy in place that would support the development of datasets to enhance the standards in this manner.
 - o FERC Staff stated it would be helpful if Item 1 included the arguments for and against the drafting/enhancement of standards to support Capacity Release on an index basis.
- **Items 2 and 3:** FERC staff stated that it would be helpful if Items 2 and 3 provided additional details as to the issues that arise in the industry to motivate adding an additional intraday nomination cycle. If the drafters of the report seek the addition of an additional intraday bumping cycle, the reasons to do so should be clearly stated in the report.
- **Item 4:** Provide clarification as to what the Commission is being asked to do and provide examples as to who would get priority in various situations.
- Reference the Report filed with the FERC on June 27, 2005 under Docket No. RM05-28-000 and the list of thirteen issues included in the filing. Describe how the six items in the current report fit into the original thirteen issues.
- After discussion with FERC Staff, the committee agreed to reorder the six issues identified in the report. Item 3 will become 4 and Item 4 will become 3. This way Items 1-3 are categorized as items for FERC action, and Items 4-6 are categorized as items for industry action.



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- Action Items:
- The drafters of the report will make modifications based on the comments provided by FERC Staff.
- Adjournment
- The meeting adjourned at 8:54 AM Central.

Attendance:

Name	Organization	Participation
Jim Templeton	Comprehensive Energy Services	Committee Chair
Vicky Bailey	Johnston & Associates	Committee Member
Valerie Crockett	Tennessee Valley Authority	Committee Member
Michael Desselle	AEP	Committee Member
Reed Horting	PECO Energy	Committee Member
Richard Kruse	Duke Energy Gas Transmission	Committee Member
Lyn Maddox	Oxadel Consulting	Committee Member
Ron Mucci	Williams Power Company	Committee Member
Mike Novak	National Fuel Gas Distribution	Committee Member
John Procario	Cinergy	Committee Member
Rick Smead	Navigant Consulting, Inc.	Committee Member
Larry Smith	Tennessee Gas Pipeline Company	Committee Member
Dennis Sobieski	PSEG Power	Committee Member
Kathryn Burch	Duke Energy Gas Transmission	Observer
Christopher Burden	Williams Gas Pipeline	Observer
Jamie Chabinsky	FERC	Observer
Kelly Daly	Stinson Morrison Hecker	Observer
Dale Davis	Williams Gas Pipeline	Observer
Michael Gildea	Constellation Generation Group	Observer
Michael Goldenberg	FERC	Observer
Bill Griffith	El Paso Natural Gas	Observer
Kay Morice	FERC	Observer
Marv Rosenberg	FERC	Observer
Kim Van Pelt	Panhandle Eastern Pipe Line	Observer
Laura Kennedy	NAESB	Staff
Rae McQuade	NAESB	Staff



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via posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Conference Call on January 11, 2006
DATE: January 13, 2006

Dear Gas-Electric Interdependency Committee Members,

A conference call was held on January 11 to review the modifications to the draft GEIC report based on the conversations with FERC staff during the December 5, 2005 Conference Call. The following notes resulted from the meeting:

- Administration:
- Ms. Kennedy read the antitrust advice and the agenda was adopted by consent.
- Review and finalize draft report for board review and approval via notational ballot and for submittal to the FERC following board approval:
- The committee modified the report based on comments during the call. The changes are presented in redline form as an attachment to these notes. Some of the more significant changes were:
- **Conclusion Section:** The six activities identified in the report were identified as items where standards development by NAESB might be explored instead of items where standards development by NAESB is feasible.
 - **Item 1:** A footnote was added to provide the link to FERC Order in Docket No. RP04-151-000 referenced in Item 1. Footnote 5 was modified to emphasize that the work paper referenced was independently provided by National Fuel Gas Distribution. Item 1 was changed to "Consider development of standards to support Capacity Release pricing on an index..."
 - **Item 2:** Several participants supported modifying Item 2 to specify the organizations that have experienced problems with gas transportation nominations within the day-ahead and real-time power markets and to modify the language to state that some pipelines have started to move to hourly and daily balancing in lieu of the more general statements in the original language and that the GEIC has not reached this conclusion.
 - **Item 3:** The specific FERC Orders described in the examples were listed. (FERC Docket Nos. RP06-69 and RP06-70 issued 11/22/2005). The committee agreed Item 3 should be modified to use subjunctive language.
 - **Item 4:** Clarifying language was proposed for Item 4. Ms. Crockett stated she would submit modified language for Item 4 based on the discussion during the call.
 - The discussion of Items 4-6 (lines 193-202) in the report were further modified for clarification purposes. A footnote was added to provide



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the link to the NERC/NAESB/IRC Memorandum of Understanding (MOU).

Action Items:

- Ms. McQuade will modify the report based on the discussion during the conference call. The redlined report will be distributed to the members of the GEIC. (The redlined report is posted on the NAESB website as an attachment to these Notes:
<http://www.naesb.org/pdf2/geic011106a1.pdf>)
- The GEIC will be asked to vote on the report via notational ballot. A simple majority vote of the GEIC members is required for the report to be adopted by the GEIC.
- If the report is approved by the GEIC, it will be forwarded to the entire Board, with an opportunity to ask questions regarding the report during a one hour conference call. The Board will vote on the report via notational ballot. A simple majority of the Board is required for the report to be approved.
- If the report is approved by the Board, it will be filed with the FERC.

Adjournment

- The meeting adjourned at 10:05 AM Central.

Schedule for Adoption of the Final GEIC Report:

- On **Monday, January 16**, the report will be distributed to the members of the GEIC with a notational ballot. A simple majority vote is needed to adopt the report by the GEIC. The GEIC ballot period will end on **Friday, January 20, 2006**.
- If the report is approved by the GEIC members on January 20, the report will be forwarded to the Board with a notational ballot on **Monday, January 23**.
- If the report is approved by the GEIC members on January 20, there will be a one hour conference call for Board members to ask the GEIC questions on the report on **February 3 at 2 PM Central**.
- If the report is approved by the GEIC members on January 20, the Board balloting period will close on **Friday, February 17**. A simple majority vote is needed to adopt the report.

Attendance:

Name	Organization	Participation
Jim Templeton	Comprehensive Energy Services	Committee Chair
Valerie Crockett	Tennessee Valley Authority	Committee Member
Michael Desselle	AEP	Committee Member
Pete Frost	ConocoPhillips Gas & Power Marketing	Committee Member
Richard Kruse	Duke Energy Gas Transmission	Committee Member
Lyn Maddox	Oxadel Consulting	Committee Member
Ron Mucci	Williams Power Company	Committee Member
Rick Smead	Navigant Consulting, Inc.	Committee Member



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Name	Organization	Participation
Kathryn Burch	Duke Energy Gas Transmission	Observer
Christopher Burden	Williams Gas Pipeline	Observer
Dolores Chezar	KeySpan	Observer
Kelly Daly	Stinson Morrison Hecker	Observer
Dale Davis	Williams Gas Pipeline	Observer
Mark Gracey	Tennessee Gas Pipeline Company	Observer
Bill Griffith	El Paso Natural Gas	Observer
Kim Van Pelt	Panhandle Eastern Pipe Line	Observer
Laura Kennedy	NAESB	Staff
Rae McQuade	NAESB	Staff



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via posting

TO: Gas-Electric Interdependency Committee Members, and Interested Industry Participants
FROM: Rae McQuade, President
Laura B. Kennedy, Meeting/Project Manager
RE: Notes from the Gas-Electric Interdependency Committee Conference Call on February 3, 2006
DATE: February 9, 2006

Dear Gas-Electric Interdependency Committee Members,

A conference call was held on February 3, 2006 to review comments and changes provided that have not been incorporated into the report and to review recent developments of the FERC. The following notes resulted from the meeting:

Administration: • Ms. Kennedy read the antitrust advice and the agenda was adopted by consent. A quorum was established during the meeting.

Review additional comments to determine if changes are needed to the report: The committee modified the report based on comments during the call. The modifications did not substantively change the report, but provided additional clarification. The final report is posted as an attachment to these notes (<http://www.naesb.org/pdf2/geic020306a1.pdf>). The five clarifications were:

- **Item 1:** A reference to the Policy Statement issued by the FERC on 1/19/06 on Natural Gas Pipeline Negotiated Rate Policies and Practices ("Policy Statement in Docket No. PL02-6 issued on 1/19/06") was added. Language was also added to Item 1 to include those pipelines that have the FERC authority to "enter into negotiated rates" in addition to those already referenced that have the FERC authority to discount capacity on an index basis.
- **Item 2:** Several participants supported modifying Item 2 to reference the applicable FERC Orders similar to the references in Items 1 and 3. A footnote was added to Item 2 to reference the FERC Dockets/Orders that state "interruptible shippers...should not be able to prevent firm shippers from having their nominations take effect at the earliest possible time." The following footnote was added to Item 2: "Firm shippers are paying reservation charges for priority rights and those rights should include the right to have a nomination become effective as early as possible on the gas day following the nomination. Interruptible shippers...should not be able to prevent firm shippers from having their nominations take effect at the earliest possible time." FERC Docket No. RM96-1-007, Order No. 587-G, (April 16, 1998). See also FERC Docket No. RM96-1 and FERC Docket No. RM96-1 Order Nos. 587-F, 636, and 637."
- **Lines 171-176:** The phrase "some policies" was replaced with the phrase "previously cited policies" to reference the FERC Orders and Policies specifically cited in the report. The phrase "would clearly benefit from a direction" was replaced with the phrase "may benefit



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from direction..."

- **Lines 177-185:** The sentence "The discussion held so far does not indicate a willingness to create business practices for wholesale electric markets" was deleted. The GEIC members agreed that the sentence in lines 183-185 that states "Along these lines, the electric market participants of the GEIC have not identified any sponsors for the efforts directed at the wholesale electric market (items 4, 5, and 6), and a broader outreach to Edison Electric Institute and other WEQ NAESB members is in order" more fully characterizes the discussions of the GEIC.

- **Lines 192-204:** The word "electric" was deleted from the phrase "to provide guidance to the electric industry in the form of Commission rulemakings..." in line 202 of the report.

Vote to approve
the amended
report:

- Mr. Desselle moved, seconded by Ms. Crockett, to amend the resolution adopted by the GEIC on January 25, 2006 to incorporate the changes made during this call. The motion unanimously passed a simple majority vote of the GEIC members, with 17 votes in support, zero votes in opposition, and zero abstentions.

Adjournment

- The meeting adjourned at 2:59 PM Central.

Schedule for
Adoption of the
Final GEIC
Report:

- The report will be forwarded to the Board with a notational ballot on **February 4, 2006**.
- The Board balloting period will close on **Friday, February 17**. A simple majority vote of the Board of Directors is needed to adopt the report.
- If the report is adopted by the Board, it will be filed with the FERC during the week of February 20th.

Attendance:

Name	Organization	Participation
Jim Templeton	Comprehensive Energy Services	Committee Chair
Adrian Chapman	Washington Gas Light	Committee Member
Valerie Crockett	Tennessee Valley Authority	Committee Member
Michael Desselle	American Electric Power	Committee Member
Joel Dison on behalf of Mark Crosswhite	Southern Company	Committee Member
Pete Frost	ConocoPhillips Gas & Power Marketing	Committee Member
Robert Gee	Gee Strategies	Committee Member
Joseph Hartsoe	American Electric Power Service Corp.	Committee Member
Reed Horting	PECO Energy	Committee Member
Richard Kruse	Duke Energy Gas Transmission	Committee Member
Randy Mills	ChevronTexaco	Committee Member
Ron Mucci	Williams Power Company	Committee Member



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Name	Organization	Participation
Mike Novak	National Fuel Gas Distribution	Committee Member
John Procario	Cinergy	Committee Member
Rick Smead	Navigant Consulting, Inc.	Committee Member
Larry Smith	Tennessee Gas Pipeline Company	Committee Member
Joe Stepenovitch		Committee Member
Bill Bourbonnais	WPS Resources Corporation	Board Member
Belinda Thornton	Tennessee Valley Authority	Board Member
Kathryn Burch	Duke Energy Gas Transmission	Observer
Christopher Burden	Williams Gas Pipeline	Observer
Dolores Chezar	KeySpan	Observer
Dale Davis	Williams Gas Pipeline	Observer
Chuck Feagans on behalf of Terry Boston	Tennessee Valley Authority	Observer
Bill Griffith	El Paso Natural Gas	Observer
Marjorie Perlman	Energy East	Observer
Kim Van Pelt	Panhandle Eastern Pipe Line	Observer
Brian White	Nisource Gas Pipelines	Observer
Bill Boswell	NAESB	NAESB General Counsel
Laura Kennedy	NAESB	Staff
Rae McQuade	NAESB	Staff



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Voting Record:

Member	Organization	Vote
Adrian Chapman	Washington Gas Light	SUPPORT
Valerie Crockett	Tennessee Valley Authority	SUPPORT
Michael Desselle	American Electric Power	SUPPORT
Joel Dison on behalf of Mark Crosswhite	Southern Company	SUPPORT
Pete Frost	ConocoPhillips Gas & Power Marketing	SUPPORT
Robert Gee	Gee Strategies	SUPPORT
Joseph Hartsoe	American Electric Power Service Corp.	SUPPORT
Reed Horting	PECO Energy	SUPPORT
Richard Kruse	Duke Energy Gas Transmission	SUPPORT
Randy Mills	ChevronTexaco	SUPPORT
Ron Mucci	Williams Power Company	SUPPORT
Mike Novak	National Fuel Gas Distribution	SUPPORT
John Procario	Cinergy	SUPPORT
Rick Smead	Navigant Consulting, Inc.	SUPPORT
Larry Smith	Tennessee Gas Pipeline Company	SUPPORT
Joe Stepenovitch		SUPPORT
Jim Templeton	Comprehensive Energy Services	SUPPORT
25 Members of Committee	SUPPORT	17
21 Are Board Members	OPPOSE	0
	ABSTAIN	0
	TOTAL	17

THE REPORT WAS ADOPTED VIA SIMPLE MAJORITY VOTE BY THE GEIC ON FEBRUARY 3, 2006



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December 21, 2005

TO: NAESB Board Members, Posting for Interested Industry Participants
FROM: Laura Kennedy, NAESB Meeting/Project Manager
RE: Draft Minutes from the NAESB Board of Directors Meeting – December 13, 2005

**NORTH AMERICAN ENERGY STANDARDS BOARD
NAESB BOARD OF DIRECTORS MEETING
December 13, 2005 in Houston, TX
Draft Minutes**

1. Administration and Welcome

Mr. Desselle called the meeting to order and welcomed the board members, participants and guests. Mr. Boswell advised the participants of the anti-trust guidelines. Ms. Kennedy then called roll for the board members and announced that quorum was established. Mr. Horting made a motion, seconded by Mr. Mucci, to adopt the agenda. The agenda was adopted unanimously. Mr. Haynes made a motion to adopt the June 22, 2005 draft minutes as redlined, and the September 22, 2005 working session draft minutes as posted. Mr. Brown seconded the motion. The minutes were adopted unanimously. The final minutes of the June 22, 2005 Board Meeting are posted on the NAESB website at <http://www.naesb.org/pdf2/bd062205fm.doc> and the final minutes of the September 22, 2005 working session are posted on the NAESB website at <http://www.naesb.org/pdf2/bd092205fm.doc>.

2. Reports from Board Committees

ERO Coordination Committee: Mr. Desselle stated that the ERO Coordination Committee was created after the September 2005 Board meeting to coordinate efforts with NERC as the ERO is formed. During its November 16, 2005 meeting, the committee determined that it would review the NERC/NAESB/IRC Memorandum of Understanding (MOU) to determine if changes should be made in light of the creation of the Electric Reliability Organization.

Mr. Desselle stated that the ERO Coordination Committee is drafting a letter to send to NERC and the IRC stating that NAESB seeks to open a review of the MOU as set out in Section 6 of the MOU. He added that the participants at the WEQ Leadership Meeting on December 12 suggested changing the name of the ERO Coordination Committee to Coordination Committee because the need for coordination with NERC and other organizations will continue after the ERO is created. There were no objections in the room or on the phone to the change of the name of the committee.

Mr. Anderson stated that Ms. Campbell, chair of the NERC Standards Authorization Committee (SAC), plans to send NAESB a formal request that NAESB representatives attend NERC SAC meetings. Mr. Desselle stated that Board of Directors and the WEQ looks forward to the request from Ms. Campbell.

Mr. Desselle stated that he spoke on behalf of NAESB at the FERC ERO Technical Conference on December 9, 2005. He spoke on the collaborative relationship between NERC and NAESB over the past three years.



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Resources Committee: Ms. Ogenyi, chair of the Resources Committee, reported that the Resources Committee is responsible for forty new members to date with a net of thirteen when resignations are considered. Ms. Ogenyi asked the Board members to make a commitment to contact a minimum of two companies regarding NAESB membership or to provide the contact information of individuals at two companies that are not currently NAESB members to the members of the Resources Committee. She stated that the Resources Committee has done a good job in increasing NAESB membership and awareness in the industry, but has exhausted its resources. Mr. Brown added that the Resources Committee has organized material including testimonials, annual plans, and FERC activities that Board members can use when contacting potential members. Mr. Desselle stated that the NAESB office would send a letter to each Board member requesting two potential member contacts.

Mr. Hebenstreit stated that Board members should cultivate NAESB awareness within their own organizations. This will help to avoid gaps in participation when individuals who are responsible for NAESB participation move on to other organizations.

Retail Awareness Committee: Mr. Cade Burks, chair of the Retail Awareness Committee, reported that the mission of the Retail Awareness Committee is to increase awareness of the activities in NAESB with market participants and state regulatory staff. The Committee has developed a page to be included on the NAESB website to provide easily accessible information on the retail markets in each state including any correspondence with the state commissioners and commission staff. After the first of the year, NAESB will send a letter to all of the public utility commissioners to make them aware of the NAESB Retail Awareness webpage and to request assistance to keep the information on the page current. Mr. Burks stated that NAESB members and market participants are encouraged to provide updates to the information on the page to ensure it contains accurate information. Any update information can be forwarded to the NAESB office.

Gas-Electric Interdependency Committee: Mr. Templeton, chair of the Gas-Electric Interdependency Committee (GEIC), reported that the committee expected to request the Board to vote on the Gas and Electric Interdependency Report during this meeting. (The 10/28/05 draft of the report can be found on pages 43-47 of the Board book). Mr. Templeton stated that the GEIC met via conference call on December 5 to answer questions from FERC staff on the draft of the report. FERC staff asked for clarifications to be made to the report before it is submitted to the FERC. Mr. Smead added that the FERC staff liked the progress that has been made by the GEIC and the suggestions in the report.

Members of the GEIC have agreed to make the modifications to the report to add clarity and specificity per the discussions with the FERC staff. Mr. Desselle stated that the modifications have not been incorporated and reviewed in time for the Board to vote on a final draft during this meeting. The GEIC will meet during the week of December 19-23 to finalize the draft and will send the report to the entire Board of Directors for vote via notational ballot. If the Board approves the report, it will be forwarded to the FERC.

Mr. Frost requested that the conference call be scheduled after the first of the year due to holiday absences. He asked the reason for the urgency in filing the report. Ms. McQuade stated that the June 27, 2005 NAESB Report on the Efforts of the NAESB Gas-Electric Interdependency Committee and the Business Practices on Pipeline-Gas-Fired Generation Facility, RM05-28-000 stated that NAESB would submit a final report to the FERC on these issues at the conclusion of the December Board meeting.

Mr. Desselle stated that the GEIC would schedule a meeting during the first or second week of



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January to finalize the report and then will send the final report to the entire Board to vote via notational ballot.

Review and Endorsement of D-U-N-S® Report Directions: Ms. McQuade stated that the D-U-N-S® Task Force reviewed the difficulties the industry experiences in using D-U-N-S® Numbers. Three of the four quadrants determined that no action would be taken at this time. The WEQ decided that NAESB should work with NERC to jointly determine whether an alternative code structure would be better than D-U-N-S® Numbers. The WEQ will also pursue the creation of an agreement with D&B that would meet the WEQ's requirements if the use of D-U-N-S® Numbers continues. The report of the D-U-N-S® Task Force is located on pages 74-83 of the Board book.

Mr. Haynes moved, seconded by Mr. Novak, to accept the interim report and set of recommendations from the D-U-N-S® Report. The motion passed unanimously. [Vote 1].

Review and Adoption of Revised Certification Program: Mr. Spangler stated that the NAESB Certification Program began about five years ago for the WGQ. The goal was to establish an optional program to allow service providers to give assurance their products conform to NAESB standards. In turn, the Certification Program also provides a way for purchasers of products to have confidence that the products comply with NAESB standards. The Certification Program Committee was formed in March 2005 by the Board of Directors to evaluate the WGQ certification program and to determine whether the certification program should be broadened to include the other three quadrants. The Certification Program Committee has submitted a report to the Board of Directors located on pages 52-67 of the Board book. The Certification Program Committee recommended that NAESB should "adopt a self-certification process and reduce the certification fees."

Ms. Ogenyi moved, seconded by Mr. Templeton, to adopt the final report and the proposed changes to the certification program as recommended by the Certification Program Committee. The motion passed unanimously. [Vote 2].

Review and Endorsement of Retail Structure Review Recommendation: Mr. Novak provided a presentation based on the Retail Structure Review Committee Final Report. The report is located on pages 68-73 of the Board book and the presentation is posted on the NAESB website at: <http://www.naesb.org/pdf2/bd121305w1.ppt>.

Mr. Novak reviewed the options considered by the Retail Structure Review Committee including (1) increase of retail quadrant membership to bylaw requirement levels; (2) change the bylaws to reduce the membership requirement; (3) combine the two Retail Quadrants to reach the bylaw membership levels; and (4) delay any structural changes until the original work plan of developing business practices for the customer choice retail markets is completed.

Mr. Novak stated that a proposal to combine the two Retail Quadrants into a Combined Retail Quadrant (CRQ) was presented at the joint Retail Electric Quadrant and Retail Gas Quadrant Executive Committee meeting on November 30, 2005. He stated that many Executive Committee members supported the delay of making changes to the structure of the Retail Quadrants until the business practices for the customer choice retail markets is completed.

Mr. Novak stated that the recommendation of the Retail Structure Review Committee was to delay any structural changes to the Retail Quadrants at this time and allow the Retail Quadrants to complete the customer choice business practices and to continue work on the three business practices for both customer choice and regulated retail markets in 2006. The Retail Structure Review Committee also recommended that the NAESB Board of Directors



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direct the Retail Structure Review Committee to complete a strategic planning exercise in 2006 and to complete a review of the need for structural changes to the two Retail Quadrants in 2006.

Ms. Ogenyi asked how the Resources Committee and Retail Structure Review Committee should work together to increase the membership of the Retail Quadrants. Mr. Novak stated that the request for Board members to contact two potential members is a good approach in increasing the membership in the Retail Quadrants. Mr. Haynes stated that when he requested the formation of the Retail Structure Review Committee, he expected the end result would be that the Retail Quadrants would be combined. He stated that he was in favor of delaying any action to modify the structure of the Retail Quadrants for another year to provide the Retail Quadrants an opportunity to complete the work on the annual plans.

Ms. Wood suggested asking retail market participants to complete a questionnaire to list what the issues are from the retail market's perspective. This would also provide an opportunity to increase awareness of activities in the NAESB Retail Quadrants.

Mr. Novak moved, seconded by Ms. Ogenyi, to adopt the recommendations of the Retail Structure Review Committee. The motion passed unanimously. [Vote 3].

3. Updates on Specific Standards Development Efforts

Gas Quality: Mr. Novak reported on the status of the work of the WGQ Business Practices Subcommittee (BPS) to draft standards to address Part B of Request No. R03035. He stated that it is the expectation that the standards will be completed in time for the WGQ Executive Committee to vote for adoption at the February 2006 meeting.

Ms. McQuade stated that Part C of Request No. R03035 is currently held in abeyance. She stated that the agenda for the March 2006 Board meeting will include discussion of whether standards should be developed to address Part C of this request.

Mr. Brown stated that the American Gas Association (AGA) and INGAA are working on similar issues and asked if NAESB is coordinating with those organizations on these issues. Mr. Novak stated that the efforts of the AGA focus on the regulatory process and how gas quality issues will be dealt with on a case by case basis.

Retail Invoicing: Ms. Kiselewich reported that the Retail Business Practices Subcommittee (BPS) is close to completion of model business practices to address Request No. R05016 (Standards or model business practices for electronic retail billing transactions and bill payment transactions between customers, suppliers, and utilities). After the BPS has completed drafting the model business practices, the Retail Technical Electronic Implementation Subcommittee (TEIS) and Information Requirements Subcommittee (IR) will begin working on the technical pieces of the business practices.

Retail Contracts: Ms. Kiselewich reported that the Retail Contracts Subcommittee has been working to draft a retail contract for use in both the electric and gas markets based on Request No. R05013. On the last conference call, eight retail end use customers participated in the call. The Contracts Subcommittee has a target completion date of 4th Quarter 2006.

OASIS Enhancements: Ms. McQuade stated that NAESB filed a report with the FERC on November 16, 2005 under Docket No. RM05-5. The report includes the renumbered WEQ standards. At the request of FERC staff, the WEQ standards were renumbered for uniqueness. Neither the order nor the text of the standards was changed.



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The Progress Report on NAESB WEQ Standards Activities as related to OASIS and NERC is located on pages 100-101 of the Board book.

Mr. Oberski reported that at the November 29, 2005 meeting, the WEQ Executive Committee voted to adopt the TLR Business Practices as modified by the WEQ BPS on November 22, 2005 but to hold ratification in abeyance until TLR implementation issues between NERC and NAESB have been clearly defined. The determination was to be made by the NAESB WEQ Members of the Board of Directors.

Mr. Desselle stated that the WEQ Members of the Board of Directors are planning to work with NERC to address coordination issues. Mr. Anderson stated that the NAESB Board of Directors should take specific action to put NERC on notice that the TLR business practices should be posted for ratification by March 2006.

Mr. Anderson moved, seconded by Mr. Hartsoe, that the Board supports the direction of the WEQ Members of the Board of Directors and expects ratification of TLR business practices should take place by March 2006. Mr. Boswell stated that there is nothing in the NAESB Bylaws that sets out when a vote must be taken to ratify adopted standards. The motion passed unanimously. [Vote 4].

4. Copyright Explanations

Mr. Boswell made a presentation on the NAESB Copyright Policy. The presentation was posted on the NAESB website at <http://www.naesb.org/pdf2/bd121305w6.ppt> and the supporting documentation is located on page 103 of the Board book.

Mr. Boswell stated that NAESB standards should be distributed by NAESB alone to ensure the integrity of the product and to make sure the most current version of the standards are being distributed. NAESB's income depends on the revenue from the sale of standards. Members can obtain standards as a part of membership, but the standards cannot be used by members' affiliates, partners, agents, or subsidiaries. Non-members can purchase the standards for their own use. Those who receive the standards by virtue of membership or purchase have an exclusive license to the standards and do not have a right sublicense or assign the standards.

Mr. Boswell noted that a letter would be distributed to members regarding the NAESB Copyright Policy.

5. Executive Committee Reports

Wholesale Electric Quadrant: Mr. Oberski provided the report for the Wholesale Electric Quadrant by reviewing the 2005 WEQ Annual Plan reviewed and updated by the WEQ Executive Committee on November 29, 2005 (pages 105-109 of the Board book).

Wholesale Gas Quadrant: Mr. Novak provided the report for the Wholesale Gas Quadrant by reviewing the 2005 WGQ Annual Plan revised by the WGQ Executive Committee on December 1, 2005 (pages 110-113 of the Board book).

Retail Electric Quadrant and Retail Gas Quadrant: Ms. Kiselewich provided the report for the Retail Gas Quadrant and Retail Electric Quadrant by reviewing the 2005 Retail Gas Quadrant and Retail Electric Quadrant Annual Plans (pages 114-121 of the Board book).

Mr. Horting moved, seconded by Mr. Chapman, to adopt the changes to all four 2005 Annual Plans. The motion passed unanimously. [Vote 5].

Standards Adopted Since the June 22 Board Meeting: Ms. McQuade stated that the NAESB



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Standards Requested and Adopted in 2005 report is included on pages 142-146 of the Board book.

Filings with the FERC: The list of the NAESB FERC Filings to date in 2005 is located on pages 139-140 of the Board book. NAESB has filed one report with the FERC since the September Board meeting. On November 16, 2005, NAESB filed a Report for NAESB Wholesale Electric Business Practices under Docket No. RM05-5-000. The report was filed regarding NAESB's activities undertaken to renumber the WEQ standards for ease of reference and to ensure the uniqueness of each number. The renumbering was undertaken at the request of FERC staff.

Adoption of 2006 Annual Plans:

Wholesale Electric Quadrant: Mr. Oberski reviewed the draft 2006 WEQ Annual Plan adopted by the WEQ Executive Committee on November 29, 2005 (pages 122-126 of the Board book). Mr. Oberski stated that the work of the WEQ was divided into three general areas: (1) Develop business practice standards as needed to complement reliability standards; (2) Develop business practice standards for Version 1 to support ATC calculations; (3) Develop business practice 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. Mr. Oberski noted that the note for Item 3(d) that disposition of the item depends on action by the Board of Directors should be removed.

Mr. Haynes moved, seconded by Ms. Ogenyi, to adopt the 2006 WEQ Annual Plan with the noted modification to Item 3(d). The motion passed unanimously. [Vote 6].

Wholesale Gas Quadrant: Mr. Novak reviewed the 2006 WGQ Annual Plan prepared by the WGQ Executive Committee on December 1, 2005 (127-129 of the Board book).

Mr. Chapman moved, seconded by Mr. Horting, to adopt the 2006 WGQ Annual Plan as drafted. The motion passed unanimously. [Vote 7].

Retail Gas Quadrant and Retail Electric Quadrant: Ms. Kiselewich reported that the Retail Quadrants agreed to combine their Annual Plans for 2006 for administrative ease. The proposed 2006 Annual Plan for the Retail Gas and Retail Electric Quadrants prepared on November 30, 2005 by the Retail Gas Quadrant and Retail Electric Quadrant Executive Committees is located on pages 130-133 of the Board book.

Mr. Templeton moved, seconded by Mr. Burks, to adopt the 2006 Annual Plan for the Retail Gas and Electric Quadrants as drafted. The motion passed unanimously. [Vote 8].

Membership Report: Ms. McQuade stated that the Membership Report – 11/30/05 is on pages 148-150 of the Board book. She noted that as of November 30th, the total membership is 318. There are 140 members in the WEQ, 122 members in the WGQ, 27 in the REQ, and 29 in the RGQ.

6. Financial Reports

Ms. Wishart provided the Financial Report located on pages 162-165 of the Board book. The Financial Report includes the Year to Date Accrual Based Income and Expenses through October 2005. Ms. Wishart stated that the 2004 Financials were reviewed by an outside firm and no changes were made.

Ms. Wishart reviewed the proposed budget for 2006 located on page 165 of the Board book.



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Ms. McQuade stated that the proposed budget assumes that the conference calling fee will not continue during 2006. Mr. Haynes remarked and thanked both Ms. McQuade and Ms. Wishart for effectively managing the financials of the organization.

Mr. Haynes moved, seconded by Mr. Schwalbach, to adopt the 2006 NAESB Annual Budget. The motion passed unanimously. [Vote 9].

7. Plan for March 2006 Board Meeting

Mr. Desselle stated that the agenda for the March 2006 Board meeting will include discussion of Part C of Request R03035, the TLR business practice standards, and review of the annual plans. Mr. Desselle encouraged the Board members to submit any additional agenda items to the NAESB office.

8. Old and New Business

Mr. Desselle stated that the schedule of the 2006 Executive Committee, Board, and Advisory Council meetings is located on page 167 of the Board book. The next meeting of the Board of Directors is scheduled on March 23, 2006 in Houston, Texas. The June 22, 2006 Board meeting and Strategic Session will be held in San Antonio, Texas. The September 21 and December 14 Board meetings will be held in Houston, Texas.

9. Adjournment

The meeting adjourned by consensus at 11:28 AM Central.

10. Board Attendance

Wholesale Gas Quadrant

END USER SEGMENT		ATTENDANCE
Valerie Crockett	Tennessee Valley Authority	In Person
Joe Stepenovitch	Florida Reliability Coordinating Council	Phone
John Procario	Vice President & COO, Cinergy - regulated	Phone
Marty Patterson	Director, Cinergy - unregulated	In Person
Jim Templeton	Principal, Comprehensive Energy Services	In Person
LDC SEGMENT		
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation	Absent
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	In Person
Reed Horting	Vice President, Gas Supply & Transportation, PECO Energy Co.	In Person
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	In Person
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	Absent
PIPELINE SEGMENT		
Terry McGill	Executive Vice President, Enbridge Energy	In Person
Larry Smith	Vice President Commercial Operations, Tennessee Gas Pipeline Company	Absent
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	Absent
V A C A N C Y		
Richard Kruse	Senior Vice President, Duke Energy Gas Transmission	In Person
PRODUCER SEGMENT		
Jay Ellzey	Manager – Regulatory and Opco Support, ChevronTexaco Natural Gas	Absent
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company	Absent
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	Phone
Bill Hebenstreit	Director of Contract Services - El Paso Production Company	In Person
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	In Person
SERVICES SEGMENT		
John Bretz	Vice President - Gas Marketing, Anadarko Energy Services Company	In Person



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Michael Smith	Vice President—Regulatory and Legislative Affairs, Constellation Energy Commodities Group	In Person
Jim Buccigross	Vice President Energy Industry Practice, Group 8760 LLC	Phone
Lyn Maddox	Consultant, Oxadel Consulting, LLC	In Person
V A C A N C Y		

Retail Electric Quadrant

DISTRIBUTOR SEGMENT		ATTENDANCE
David Koogler	Director – Regulation & Competition, Dominion Virginia Power (SERC NERC Region)	In Person
Bill Bourbonnais	Vice President - Transmission, WPS Resources Corporation (MAIN NERC Region)	Absent
V A C A N C Y		
Leonard Haynes	Executive Vice President and Chief Marketing Officer, Southern Company Services (SERC NERC Region)	In Person
END USER SEGMENT		
Sonny Popowsky	Pennsylvania Office of Consumer Advocate	Phone
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
SERVICES SEGMENT		
V A C A N C Y		
Stacey Wood	Director, The Structure Group	In Person
J Cade Burks	President, EC Power	In Person
V A C A N C Y		
SUPPLIER SEGMENT		
V A C A N C Y		
David Booty	Director of Operations, Direct Energy Business Services	In Person
V A C A N C Y		
Richard Zelenko	General Manager, Dominion Retail Inc.	Phone

Wholesale Electric Quadrant

END USER SEGMENT		SUB-SEGMENT	ATTENDANCE
John A. Anderson	President and CEO, Electricity Consumers Resource Council (ELCON)	LIND	Phone
Jeanne Zaiontz	Director, Regulatory Affairs, BP Energy Co.	LIND	Absent
Carol Guthrie	General Manager, Electric Market Strategies, ChevronTexaco Energy Research and Technology Company	SGEN	Absent
V A C A N C Y		COMPRET	
V A C A N C Y		IOU	
John Reese	Senior Policy Advisor & Director of the Office of Economic Development and Policy, New York State Department of Public Service	REG	Absent
Kevin Burns	Vice President Sales and Marketing, Open Access Technology International, Inc.	AT LARGE	In Person
DISTRIBUTION/LSE SEGMENT			ATTENDANCE
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU	Absent
Mark Crosswhite	Senior Vice President & General Counsel – Generation and Energy Marketing, Southern Company	IOU	Phone
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	MUNI-COOP	In Person
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	MUNI-COOP	In Person
Mark B. Bonsall	Chief Financial Executive/Associate General Manager, Salt River Project	OTHER	Absent
V A C A N C Y		COMPRET	



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Bruce Ellsworth	New York State Reliability Council	AT LARGE	Absent
GENERATION SEGMENT		SUB-SEGMENT	
V A C A N C Y		FED	
Charles W. Severance	Director Bulk Power, Wisconsin Public Service Corporation	IOU	In Person
John J. Dellas	Executive Manager, Electric Supply, Consumers Energy	IOU	Phone
Dennis Sobieski	Managing Director – Business Development, PSEG Power	MERC	Phone
Thomas Ingwers	Director, Energy Trading and Contracts, Sacramento Municipal Utility District	MUNI-COOP	Absent
Gloria Ogenyi	Director Energy and Market Policy, Conectiv Energy Supply, Inc.	MERC	In Person
Ron Mucci	Senior Vice President Shared Services, Williams Power Company	AT LARGE	In Person
TRANSMISSION SEGMENT		SUB-SEGMENT	
W Terry Boston	Executive Vice President – Transmission/Power Supply Group, Tennessee Valley Authority	FED	Absent
Peter Flynn	Vice President Transmission Strategy and Policy, National Grid USA	ITC	Absent
Paul McCoy	Executive Vice President of Transmission System Operations, Trans-Elect	ITC	Phone
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	MUNI-COOP	In Person
John E. Lucas	Manager, Transmission Services, Southern Company	IOU	Phone
Michael Desselle	Director Public Policy, American Electric Power	IOU	In Person
Ken Wiley	President and Chief Executive Officer, Florida Reliability Coordinating Council	AT LARGE	Absent
MARKETER/BROKER SEGMENT		SUB-SEGMENT	
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	FED	In Person
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	IOU	In Person
Roy True	Manager of RTO Market Development, ACES Power Marketing	MUNI-COOP	Absent
V A C A N C Y		N IOU	
Michael Grim	Director of Markets and Regulation, TXU Business Services	N IOU	Phone
Joseph Hartsoe	Vice President and Associate General Counsel, American Electric Power Service Corp.	IOU	Phone
Rick Smead	Director, Navigant Consulting, Inc.	AT LARGE	In Person



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Retail Gas Quadrant

DISTRIBUTORS SEGMENT		ATTENDANCE
Craig White	Chief Operating Officer, Philadelphia Gas Works	Phone
Glen R. Schwalbach	Assistant Vice President Corporate Planning, Wisconsin Public Service Corporation	In Person
Mark T. Maassel	President, Northern Indiana Public Service Company (NiSource, Inc.)	Absent
Paul J. Szykman	Director – Rates and Gas Supply, UGI Utilities, Inc.	Phone
V A C A N C Y		
V A C A N C Y		
END USERS SEGMENT		
V A C A N C Y		
Tina Burnett	Chair, Northwest Industrial Gas Users Association	In Person
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
SERVICE PROVIDERS SEGMENT		
Leigh Spangler	President, Latitude Technologies Inc.	In Person
V A C A N C Y		
Dave Darnell	President & CEO, Systrends Inc.	Phone
Greg Lander	Principal, Commerce Energy Group	Absent
V A C A N C Y		
V A C A N C Y		
SUPPLIER SEGMENT		
Kathy Fudali	Manager, Contract Administration, Sprague Energy Corp.	Absent
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		

12. Other Attendance

Name	Organization	Attendance
Barbara Alexander	State of Maine Public Advocate	Phone
Bill Boswell	NAESB	In Person
Kathryn Burch	Duke Energy Gas Transmission	In Person
Christopher Burden	Williams Gas Pipeline	In Person
James Cargas	NAESB	In Person
Dolores Chezar	KeySpan Energy	Phone
LaRita Cormier	Riverside Reporting	In Person
Dale Davis	Williams Gas Pipeline	In Person
Chuck Feagans	Tennessee Valley Authority	Phone
Mark Gracey	Tennessee Gas Pipeline	In Person
Bill Griffith	El Paso Natural Gas	In Person
Peter Kelly-Detwiler	Constellation NewEnergy	In Person
Laura Kennedy	NAESB	In Person
Iris King	Dominion Transmission, Inc.	In Person
DeDe Kirby	NAESB	In Person
Ruth Kiselewich	Baltimore Gas and Electric Company	In Person
Marcy McCain	Duke Energy Gas Transmission	In Person
Rae McQuade	NAESB	In Person



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Name	Organization	Attendance
Lou Oberski	Dominion Resources Services, Inc.	In Person
Marjorie Perlman	Energy East Management	Phone
Todd Oncken	NAESB	
Denise Rager	NAESB	In Person
Barbara Rehman	Bonneville Power Administration	Phone
Lisa Simpkins	Constellation Energy Commodities	In Person
Veronica Thomason	NAESB	In Person
Kim Van Pelt	Panhandle Eastern Pipe Line	In Person
Darla Wishart	NAESB	In Person
Charles Yeung	Southwest Power Pool	In Person
Kathy York	Tennessee Valley Authority	In Person
Randy Young	Gulf South Pipeline	In Person



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13. Voting Record¹

Wholesale Gas Quadrant

END USER SEGMENT		VOTE 1	VOTE 2	VOTE 3	VOTE 4	VOTE 5	VOTE 6
Valerie Crockett	Tennessee Valley Authority	S	S	S	S	S	S
Joe Stepenovitch	Florida Reliability Coordinating Council	S	S	S	S	S	S
John Procario	Vice President & COO, Cinergy - regulated	S	S	S	S	S	S
Marty Patterson	Director, Cinergy - unregulated						
Jim Templeton	Principal, Comprehensive Energy Services	S	S	S	S	S	S
LDC SEGMENT							
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation						
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	S	S	S	S	S	S
Reed Horting	Vice President, Gas Supply & Transportation, PECO Energy Co.	S	S	S	S	S	S
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	S	S	S	S	S	S
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company						
PIPELINE SEGMENT							
Terry McGill	Executive Vice President, Enbridge Energy	S	S	S	S	S	S
Larry Smith	Vice President Commercial Operations, Tennessee Gas Pipeline Company						
Bill Grygar	Vice President, Panhandle Eastern Pipe Line						
V A C A N C Y							
Richard Kruse	Senior Vice President, Duke Energy Gas Transmission	S	S	S	S	S	S
PRODUCER SEGMENT							
Jay Ellzey	Manager – Regulatory and Opco Support, ChevronTexaco Natural Gas						
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company						
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	S	S	S	S	S	S
Bill Hebenstreit	Director of Contract Services - El Paso Production Company	S	S	S	S	S	S
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	S	S	S	S	S	S
SERVICES SEGMENT							
John Bretz	Vice President - Gas Marketing, Anadarko Energy Services Company	S	S	S	S	S	S
Michael Smith	Vice President—Regulatory and Legislative Affairs, Constellation Energy Commodities Group	S	S	S	S	S	S
Jim Buccigross	Vice President Energy Industry Practice, Group 8760 LLC	S	S	S	S	S	S
Lyn Maddox	Consultant, Oxadel Consulting, LLC	S	S	S	S	S	S
V A C A N C Y							

¹ Voting Record Legend: S = Support, O = Oppose, A = Abstain



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Retail Electric Quadrant

DISTRIBUTOR SEGMENT		VOTE 1	VOTE 2	VOTE 3	VOTE 4	VOTE 5	VOTE 6
David Koogler	Director – Regulation & Competition, Dominion Virginia Power (SERC NERC Region)	S	S	S	S	S	S
Bill Bourbonnais	Vice President - Transmission, WPS Resources Corporation (MAIN NERC Region)						
V A C A N C Y							
Leonard Haynes	Executive Vice President and Chief Marketing Officer, Southern Company Services (SERC NERC Region)	S	S	S	S	S	S
END USER SEGMENT							
Sonny Popowsky	Pennsylvania Office of Consumer Advocate	S	S	S	S	S	S
V A C A N C Y							
V A C A N C Y							
V A C A N C Y							
SERVICES SEGMENT							
V A C A N C Y							
Stacey Wood	Director, The Structure Group	S	S	S	S	S	S
J Cade Burks	President, EC Power	S	S	S	S	S	S
V A C A N C Y							
SUPPLIER SEGMENT							
V A C A N C Y							
David Booty	Director of Operations, Direct Energy Business Services	S	S	S	S	S	S
V A C A N C Y							
Richard Zelenko	General Manager, Dominion Retail Inc.	S	S	S	S	S	S

Wholesale Electric Quadrant

END USER SEGMENT		SUB-SEGMENT	VOTE 1	VOTE 2	VOTE 3	VOTE 4	VOTE 5	VOTE 6
John A. Anderson	President and CEO, Electricity Consumers Resource Council (ELCON)	LIND	S	S	S	S	S	S
Jeanne Zaiontz	Director, Regulatory Affairs, BP Energy Co.	LIND						
Carol Guthrie	General Manager, Electric Market Strategies, ChevronTexaco Energy Research and Technology Company	SGEN						
V A C A N C Y		COMPRET						
V A C A N C Y		IOU						
John Reese	Senior Policy Advisor & Director of the Office of Economic Development and Policy, New York State Department of Public Service	REG						
Kevin Burns	Vice President Sales and Marketing, Open Access Technology	AT LARGE	S	S	S	S	S	S



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International, Inc.									
DISTRIBUTION/LSE SEGMENT		SUB-SEGMENT							
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU							
Mark Crosswhite	Senior Vice President & General Counsel – Generation and Energy Marketing, Southern Company	IOU	S	S	S	S	S	S	S
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	MUNI-COOP	S	S	S	S	S	S	S
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	MUNI-COOP	S	S	S	S	S	S	S
Mark B. Bonsall	Chief Financial Executive/Associate General Manager, Salt River Project	OTHER							
V A C A N C Y		COMPRET							
Bruce Ellsworth	New York State Reliability Council	AT LARGE							
GENERATION SEGMENT		SUB-SEGMENT							
V A C A N C Y		FED							
Charles W. Severance	Director Bulk Power, Wisconsin Public Service Corporation	IOU	S	S	S	S	S	S	S
John J. Dellas	Executive Manager, Electric Supply, Consumers Energy	IOU	S	S	S	S	S	S	S
Dennis Sobieski	Managing Director – Business Development, PSEG Power	MERC	S	S	S	S	S	S	S
Thomas Ingwers	Director, Energy Trading and Contracts, Sacramento Municipal Utility District	MUNI-COOP							
Gloria Ogenyi	Director Energy and Market Policy, Conectiv Energy Supply, Inc.	MERC	S	S	S	S	S	S	S
Ron Mucci	Senior Vice President Shared Services, Williams Power Company	AT LARGE	S	S	S	S	S	S	S
TRANSMISSION SEGMENT		SUB-SEGMENT							
W Terry Boston	Executive Vice President – Transmission/Power Supply Group, Tennessee Valley Authority	FED							
Peter Flynn	Vice President Transmission Strategy and Policy, National Grid USA	ITC							
Paul McCoy	Executive Vice President of Transmission System Operations, Trans-Elect	ITC	S	S	S	S	S	S	S
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	MUNI-COOP	S	S	S	S	S	S	S
John E. Lucas	Manager, Transmission Services, Southern Company	IOU	S	S	S	S	S	S	S
Michael Desselle	Director Public Policy, American Electric Power	IOU	S	S	S	S	S	S	S
Ken Wiley	President and Chief Executive Officer, Florida Reliability Coordinating Council	AT LARGE							
MARKETER/BROKER SEGMENT		SUB-SEGMENT							
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	FED	S	S	S	S	S	S	S
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	IOU	S	S	S	S	S	S	S
Roy True	Manager of RTO Market Development, ACES Power Marketing	MUNI-COOP							
V A C A N C Y		N IOU							



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Michael Grim	Director of Markets and Regulation, TXU Business Services	N IOU	S	S	S	S	S	S
Joseph Hartsoe	Vice President and Associate General Counsel, American Electric Power Service Corp.	IOU	S	S	S	S	S	S
Rick Smead	Director, Navigant Consulting, Inc.	AT LARGE	S	S	S	S	S	S

Retail Gas Quadrant

DISTRIBUTORS SEGMENT		VOTE 1	VOTE 2	VOTE 3	VOTE 4	VOTE 5	VOTE 6
Craig White	Chief Operating Officer, Philadelphia Gas Works	S	S	S	S	S	S
Glen R. Schwalbach	Assistant Vice President Corporate Planning, Wisconsin Public Service Corporation	S	S	S	S	S	S
Mark T. Maassel	President, Northern Indiana Public Service Company (NiSource, Inc.)						
Paul J. Szykman	Director – Rates and Gas Supply, UGI Utilities, Inc.	S	S	S	S	S	S
V A C A N C Y							
V A C A N C Y							
END USERS SEGMENT							
V A C A N C Y							
Tina Burnett	Chair, Northwest Industrial Gas Users Association	S	S	S	S	S	S
V A C A N C Y							
V A C A N C Y							
V A C A N C Y							
V A C A N C Y							
SERVICE PROVIDERS SEGMENT							
Leigh Spangler	President, Latitude Technologies Inc.	S	S	S	S	S	S
V A C A N C Y							
Dave Darnell	President & CEO, Systrends Inc.	S	S	S	S	S	S
Greg Lander	Principal, Commerce Energy Group						
V A C A N C Y							
V A C A N C Y							
SUPPLIER SEGMENT							
Kathy Fudali	Manager, Contract Administration, Sprague Energy Corp.						
V A C A N C Y							
V A C A N C Y							
V A C A N C Y							
V A C A N C Y							
V A C A N C Y							

Wholesale Gas Quadrant

END USER SEGMENT		VOTE 7	VOTE 8	VOTE 9
Valerie Crockett	Tennessee Valley Authority	S	S	S
Joe Stepenovitch	Florida Reliability Coordinating Council	S	S	S
John Procario	Vice President & COO, Cinergy - regulated	S	S	S



North American Energy Standards Board

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Marty Patterson	Director, Cinergy - unregulated			
Jim Templeton	Principal, Comprehensive Energy Services	S	S	S
LDC SEGMENT				
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation			
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	S	S	S
Reed Horting	Vice President, Gas Supply & Transportation, PECO Energy Co.	S	S	S
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	S	S	S
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company			
PIPELINE SEGMENT				
Terry McGill	Executive Vice President, Enbridge Energy	S	S	S
Larry Smith	Vice President Commercial Operations, Tennessee Gas Pipeline Company			
Bill Grygar	Vice President, Panhandle Eastern Pipe Line			
V A C A N C Y				
Richard Kruse	Senior Vice President, Duke Energy Gas Transmission	S	S	S
PRODUCER SEGMENT				
Jay Ellzey	Manager – Regulatory and Opco Support, ChevronTexaco Natural Gas			
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company			
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	S	S	S
Bill Hebenstreit	Director of Contract Services - El Paso Production Company	S	S	S
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	S	S	S
SERVICES SEGMENT				
John Bretz	Vice President - Gas Marketing, Anadarko Energy Services Company	S	S	S
Michael Smith	Vice President—Regulatory and Legislative Affairs, Constellation Energy Commodities Group	S	S	S
Jim Buccigross	Vice President Energy Industry Practice, Group 8760 LLC	S	S	S
Lyn Maddox	Consultant, Oxadel Consulting, LLC	S	S	S
V A C A N C Y				

Retail Electric Quadrant

DISTRIBUTOR SEGMENT		VOTE 7	VOTE 8	VOTE 9
David Koogler	Director – Regulation & Competition, Dominion Virginia Power (SERC NERC Region)	S	S	S
Bill Bourbonnais	Vice President - Transmission, WPS Resources Corporation (MAIN NERC Region)			
V A C A N C Y				
Leonard Haynes	Executive Vice President and Chief Marketing Officer, Southern Company Services (SERC NERC Region)	S	S	S
END USER SEGMENT				



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Sonny Popowsky	Pennsylvania Office of Consumer Advocate	S	S	S
V A C A N C Y				
V A C A N C Y				
V A C A N C Y				

SERVICES SEGMENT

V A C A N C Y				
Stacey Wood	Director, The Structure Group	S	S	S
J Cade Burks	President, EC Power	S	S	S
V A C A N C Y				

SUPPLIER SEGMENT

V A C A N C Y				
David Booty	Director of Operations, Direct Energy Business Services	S	S	S
V A C A N C Y				
Richard Zelenko	General Manager, Dominion Retail Inc.	S	S	S

Wholesale Electric Quadrant

END USER SEGMENT		SUB-SEGMENT	VOTE 7	VOTE 8	VOTE 9
John A. Anderson	President and CEO, Electricity Consumers Resource Council (ELCON)	LIND	S	S	S
Jeanne Zaiontz	Director, Regulatory Affairs, BP Energy Co.	LIND			
Carol Guthrie	General Manager, Electric Market Strategies, ChevronTexaco Energy Research and Technology Company	SGEN			
V A C A N C Y		COMPRET			
V A C A N C Y		IOU			
John Reese	Senior Policy Advisor & Director of the Office of Economic Development and Policy, New York State Department of Public Service	REG			
Kevin Burns	Vice President Sales and Marketing, Open Access Technology International, Inc.	AT LARGE	S	S	S
DISTRIBUTION/LSE SEGMENT					
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU			
Mark Crosswhite	Senior Vice President & General Counsel – Generation and Energy Marketing, Southern Company	IOU	S	S	S
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	MUNI-COOP	S	S	S
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	MUNI-COOP	S	S	S
Mark B. Bonsall	Chief Financial Executive/Associate General Manager, Salt River	OTHER			



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V A C A N C Y		Project	COMPRET			
Bruce Ellsworth		New York State Reliability Council	AT LARGE			
GENERATION SEGMENT			SUB-SEGMENT			
V A C A N C Y			FED			
Charles W. Severance	Director Bulk Power, Wisconsin Public Service Corporation		IOU	S	S	S
John J. Dellas	Executive Manager, Electric Supply, Consumers Energy		IOU	S	S	S
Dennis Sobieski	Managing Director – Business Development, PSEG Power		MERC	S	S	S
Thomas Ingwers	Director, Energy Trading and Contracts, Sacramento Municipal Utility District		MUNI-COOP			
Gloria Ogenyi	Director Energy and Market Policy, Conectiv Energy Supply, Inc.		MERC	S	S	S
Ron Mucci	Senior Vice President Shared Services, Williams Power Company		AT LARGE	S	S	S
TRANSMISSION SEGMENT			SUB-SEGMENT			
W Terry Boston	Executive Vice President – Transmission/Power Supply Group, Tennessee Valley Authority		FED			
Peter Flynn	Vice President Transmission Strategy and Policy, National Grid USA		ITC			
Paul McCoy	Executive Vice President of Transmission System Operations, Trans-Elect		ITC	S	S	S
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative		MUNI-COOP	S	S	S
John E. Lucas	Manager, Transmission Services, Southern Company		IOU	S	S	S
Michael Desselle	Director Public Policy, American Electric Power		IOU	S	S	S
Ken Wiley	President and Chief Executive Officer, Florida Reliability Coordinating Council		AT LARGE			
MARKETER/BROKER SEGMENT			SUB-SEGMENT			
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration		FED	S	S	S
R. Scott Brown	Vice President and Director, Exelon Generation Power Team		IOU	S	S	S
Roy True	Manager of RTO Market Development, ACES Power Marketing		MUNI-COOP			
V A C A N C Y			N IOU			
Michael Grim	Director of Markets and Regulation, TXU Business Services		N IOU	S	S	S
Joseph Hartsoe	Vice President and Associate General Counsel, American Electric Power Service Corp.		IOU	S	S	S
Rick Smead	Director, Navigant Consulting, Inc.		AT LARGE	S	S	S

Retail Gas Quadrant

DISTRIBUTORS SEGMENT		VOTE 7	VOTE 8	VOTE 9
Craig White	Chief Operating Officer, Philadelphia Gas Works	S	S	S
Glen R. Schwalbach	Assistant Vice President Corporate Planning, Wisconsin Public Service Corporation	S	S	S



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Mark T. Maassel

Paul J. Szykman

V A C A N C Y

V A C A N C Y

President, Northern Indiana Public Service Company (NiSource, Inc.)

Director – Rates and Gas Supply, UGI Utilities, Inc.

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END USERS SEGMENT

V A C A N C Y

Tina Burnett

V A C A N C Y

V A C A N C Y

V A C A N C Y

V A C A N C Y

Chair, Northwest Industrial Gas Users Association

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S

SERVICE PROVIDERS SEGMENT

Leigh Spangler

V A C A N C Y

Dave Darnell

Greg Lander

V A C A N C Y

V A C A N C Y

President, Latitude Technologies Inc.

President & CEO, Systrends Inc.

Principal, Commerce Energy Group

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SUPPLIER SEGMENT

Kathy Fudali

V A C A N C Y

V A C A N C Y

V A C A N C Y

V A C A N C Y

V A C A N C Y

Manager, Contract Administration, Sprague Energy Corp.

AVAILABILITY OF TRANSCRIPTS:

Transcripts for the following meetings are available. Please contact the NAESB Office (naesb@naesb.org) for detailed information on how to obtain the transcripts.

NAESB Board of Directors Meetings:

December 13, 2005

APPENDIX B

Board of Directors Tally Sheet

Ballot and Announcement
Tally Sheet of Votes



North American Energy Standards Board

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TO: NAESB Board Members
FROM: Rae McQuade, NAESB President
RE: **Notational Ballot for Board Vote on the Gas-Electric Interdependence Report**
DATE: February 4, 2006

Dear Board Members:

Attached please find a ballot to indicate your vote of support, opposition or abstention regarding the approval of final report of the Gas-Electric Coordination Committee. The report can be accessed from the NAESB web site (http://www.naesb.org/pdf2/bd020306geic_report.pdf), and is not included as an attachment to this ballot due to its size. The report was unanimously endorsed by the committee on February 3 via conference call.

To cast your vote, you can complete the attached ballot by indicating your vote, then email it (vthomason@naesb.org) or fax it to the office (713-356-0067), or you can simply respond via reply to email forwarded with the ballot. We would appreciate your response no later than February 17. Should the report be endorsed by a simple majority of the Board members, it will be sent to the FERC the week of February 20. All Board members are eligible to vote and the roster can be found on pages 3-5 of this document.

The NAESB office and the GEIC Chairman Jim Templeton, want to thank the committee members and all who participated in and contributed to the drafting of this report.

Best Regards,
Rae



North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD

Board of Directors Ballot

Notational Vote Regarding the Approval of the GEIC Report

DUE February 17, 2006

Agreement?
(Yes/No/Abstain)

Statement

I vote to approve the NAESB Gas-Electric Interdependency Report adopted unanimously by the NAESB Gas-Electric Interdependency Committee on February 3, 2006. The report can be found on the NAESB web site:

http://www.naesb.org/pdf2/bd020306geic_report.pdf

Name:

Signature:

Company:

Date:

Please return to the NAESB Office by February 17, 2006

Fax: 713-356-0067

Email: vthomason@naesb.org



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Attachment

NAESB Board of Directors Roster as of February 4, 2006

NORTH AMERICAN ENERGY STANDARDS BOARD

2006 Board of Directors

OFFICERS: Mark Maassel is CEO and Chairman of the Board of Directors. Rae McQuade as President serves as Secretary, President and COO. Leonard Haynes is the REQ Vice Chairman. Michael Desselle is the WEQ Vice Chairman. Joe Stepenovitch is the WGQ Vice Chairman, Jim Templeton is Chair Emeritus.

WHOLESALE GAS

END USER SEGMENT		TERM END:
Valerie Crockett	Tennessee Valley Authority	Dec 31, 2006
Joe Stepenovitch		Dec 31, 2006
John Procario	Vice President & COO, Cinergy - regulated	Dec 31, 2006
Marty Patterson	Director, Cinergy - unregulated	Dec 31, 2007
Jim Templeton	Principal, Comprehensive Energy Services	Dec 31, 2007
LDC SEGMENT		TERM END:
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation	Dec 31, 2006
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	Dec 31, 2006
Reed Horting	Vice President, Gas Supply & Transportation, PECO Energy Co.	Dec 31, 2006
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	Dec 31, 2007
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	Dec 31, 2007
PIPELINE SEGMENT		TERM END:
Terry McGill	Executive Vice President, Enbridge Energy	Dec 31, 2006
Larry Smith	Vice President Commercial Operations, Tennessee Gas Pipeline Company	Dec 31, 2006
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	Dec 31, 2006
V A C A N C Y		Dec 31, 2005
Richard Kruse	Senior Vice President, Duke Energy Gas Transmission	Dec 31, 2005
PRODUCER SEGMENT		TERM END:
Jay Ellzey	Manager – Regulatory and Opco Support, ChevronTexaco Natural Gas	Dec 31, 2006
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company	Dec 31, 2007
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	Dec 31, 2007
Bill Hebenstreit	Director of Contract Services - El Paso Production Company	Dec 31, 2006
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	Dec 31, 2007
SERVICES SEGMENT		TERM END:
John Bretz	Vice President - Gas Marketing, Anadarko Energy Services Company	Dec 31, 2006
Michael Smith	Vice President—Regulatory and Legislative Affairs, Constellation Energy Commodities Group	Dec 31, 2006
Jim Buccigross	Vice President Energy Industry Practice, Group 8760 LLC	Dec 31, 2007
Lyn Maddox	Consultant, Oxadel Consulting, LLC	Dec 31, 2007

RETAIL ELECTRIC

DISTRIBUTOR SEGMENT		TERM END:
David Koogler	Director – Regulation & Competition, Dominion Virginia Power (SERC NERC Region)	Dec 31, 2007
Bill Bourbonnais	Vice President - Transmission, WPS Resources Corporation (MAIN NERC Region)	Dec 31, 2007
Ruth Kiselewich	Director Special Projects and Supplier Services, Baltimore Gas & Electric Company (MAAC NERC Region)	Dec 31, 2006
Leonard Haynes	Executive Vice President, Supply Technologies, Renewables, and Demand, Southern Company Services (SERC NERC Region)	Dec 31, 2006



North American Energy Standards Board

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Attachment NAESB Board of Directors Roster as of February 4, 2006

END USER SEGMENT		TERM END:	
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate	Dec 31, 2007	
Jim Minneman	Director of Business Services, PPL Solutions LLC	Dec 31, 2007	
J Cade Burks	President, EC Power	Dec 31, 2006	
SUPPLIER SEGMENT		TERM END:	
Peter Kelly-Detwiler	Director of Operations, Constellation NewEnergy	Dec 31, 2007	
Richard Zelenko	General Manager, Dominion Retail Inc.	Dec 31, 2006	
WHOLESALE ELECTRIC			
END USER SEGMENT		TERM END:	SUB SEG
John A. Anderson	President and CEO, Electricity Consumers Resource Council (ELCON)	Dec 31, 2007	LIND
Jeanne Zaiontz	Director, Regulatory Affairs, BP Energy Co.	Dec 31, 2006	LIND
Carol Guthrie	General Manager, Electric Market Strategies, ChevronTexaco Energy Research and Technology Company	Dec 31, 2006	SGEN
John Reese	Senior Policy Advisor & Director of the Office of Economic Development and Policy, New York State Department of Public Service	Dec 31, 2006	REG
Kevin Burns	Vice President Sales and Marketing, Open Access Technology International, Inc.	Dec 31, 2007	AT LARGE
DISTRIBUTION/LSE SEGMENT		TERM END:	SUB SEG
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	Dec 31, 2007	IOU
Mark Crosswhite	Senior Vice President & General Counsel – Generation and Energy Marketing, Southern Company	Dec 31, 2006	IOU
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	Dec 31, 2007	MUNI-COOP
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	Dec 31, 2006	MUNI-COOP
Bruce Ellsworth	New York State Reliability Council	Dec 31, 2007	AT LARGE
GENERATION SEGMENT		TERM END:	SUB SEG
Belinda Thornton	Senior Manager – Real Time Trading, Tennessee Valley Authority	Dec 31, 2006	FED
Charles W. Severance	Manager – Supply & Wholesale Services, Wisconsin Public Service Corporation	Dec 31, 2007	IOU
John J. Dellas	Executive Manager, Electric Supply, Consumers Energy	Dec 31, 2006	IOU
Michael Gildea	Executive Director, Regulatory Affairs, Constellation Generation Group	Dec 31, 2007	MERC
Gloria Ogenyi	Director Energy and Market Policy, Conectiv Energy Supply, Inc.	Dec 31, 2006	MERC
Ron Mucci	Senior Vice President Shared Services, Williams Power Company	Dec 31, 2007	AT LARGE
TRANSMISSION SEGMENT		TERM END:	SUB SEG
W Terry Boston	Executive Vice President – Transmission/Power Supply Group, Tennessee Valley Authority	Dec 31, 2006	FED
V A C A N C Y		Dec 31, 2007	ITC
Paul McCoy	Executive Vice President of Transmission System Operations, Trans-Elect	Dec 31, 2006	ITC
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	Dec 31, 2007	MUNI-COOP
John E. Lucas	Manager, Transmission Services, Southern Company	Dec 31, 2006	IOU
Michael Desselle	Director Public Policy, American Electric Power	Dec 31, 2007	IOU
Ken Wiley	President and Chief Executive Officer, Florida Reliability Coordinating Council	DEC 31, 2007	AT LARGE
MARKETER/BROKER SEGMENT		TERM END:	SUB SEG
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	Dec 31, 2007	FED
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	Dec 31, 2007	IOU
Roy True	Manager of RTO Market Development, ACES Power Marketing	Dec 31, 2006	MUNI-COOP



North American Energy Standards Board

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Attachment NAESB Board of Directors Roster as of February 4, 2006

Michael Grim	Director of Markets and Regulation, TXU Business Services	Dec 31, 2006	N IOU
Joseph Hartsoe	Vice President and Associate General Counsel, American Electric Power Service Corp.	Dec 31, 2006	IOU
Rick Smead	Director, Navigant Consulting, Inc.	Dec 31, 2007	AT LARGE

RETAIL GAS

DISTRIBUTORS SEGMENT		TERM END:
Craig White	Chief Operating Officer, Philadelphia Gas Works	Dec 31, 2006
Glen R. Schwalbach	Assistant Vice President Corporate Planning, Wisconsin Public Service Corporation	Dec 31, 2007
Mark T. Maassel	President, Northern Indiana Public Service Company (NiSource, Inc.)	Dec 31, 2006
END USERS SEGMENT		TERM END:
VACANCIES		There are no members in the segment
SERVICE PROVIDERS SEGMENT		TERM END:
Leigh Spangler	President, Latitude Technologies Inc.	Dec 31, 2006
Dave Darnell	President & CEO, Systrends Inc.	Dec 31, 2007
Greg Lander	Principal, Commerce Energy Group	Dec 31, 2007
SUPPLIER SEGMENT		
Kathy Fudali	Manager, Contract Administration, Sprague Energy Corp.	Dec 31, 2006

For all quadrants, the vacancies are not displayed in the tables above. The full roster which includes the vacancies can be accessed from the NAESB web site (http://www.naesb.org/pdf2/bod_terms.pdf).

For Wholesale Electric, the subsegments noted in the above roster are:

AT LARGE -- Regional reliability organizations, regional transmission organizations, consultants, service companies, information services and software companies, law firms, and other such organizations that are not specifically encompassed in the other sub-segments for a given segment.

COMPRET -- Competitive Retailer (not available to MUNI/COOP, IOU or IOU affiliates)

EU -- End Use (also in another segment)

FED -- Federal/State/Provincial

IOU -- Investor Owned Utility or IOU Affiliated

ITC -- Independent Transmission Company

LIND -- Large Industrials (not in other segments)

MERC -- Merchant

MUNI-COOP -- Municipals, Cooperatives

N IOU -- Not IOU affiliated

OTHER -- (not available to MUNI/COOP, IOU or IOU affiliates)

REG -- Regulator

RESCOM -- Residential/Commercial

SGEN -- End Use (Self Generation)

The number of seats within each segment that are allotted to subsegments are controlled through the WEQ Procedures.

North American Energy Standards Board

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NORTH AMERICAN ENERGY STANDARDS BOARD GEIC Report Vote Tally – February 17, 2006

Wholesale Gas Quadrant

END USER SEGMENT		VOTE:
Valerie Crockett	Tennessee Valley Authority	Support
Joe Stepenovitch		Support
John Procario	Vice President & COO, Cinergy - regulated	
Marty Patterson	Director, Cinergy - unregulated	
Jim Templeton	Principal, Comprehensive Energy Services	Support
LDC SEGMENT		
Clifton Olson	Vice President of Supply and Transmission, Energy East Corporation	
Adrian Chapman	Vice President, Regulatory Affairs & Energy Acquisition, Washington Gas	Support
Reed Horting	Vice President, Gas Supply & Transportation, PECO Energy Co.	Support
Mike Novak	Asst. General Manager, National Fuel Gas Distribution Corporation	Support
Lee Stewart	Senior Vice President, Gas Transmission, Southern California Gas Company	
PIPELINE SEGMENT		
Terry McGill	Executive Vice President, Enbridge Energy	Support
Larry Smith	Vice President Commercial Operations, Tennessee Gas Pipeline Company	Support
Bill Grygar	Vice President, Panhandle Eastern Pipe Line	Support
V A C A N C Y		
Richard Kruse	Senior Vice President, Duke Energy Gas Transmission	Support
PRODUCER SEGMENT		
Jay Ellzey	Manager – Regulatory and Opco Support, ChevronTexaco Natural Gas	
William T. Benham	Vice President – Regulatory Affairs, BP Energy Company	Support
Keith Sappenfield	Regional Director – US Regulatory Affairs, EnCana Oil & Gas (USA) Inc.	Support
Bill Hebenstreit	Director of Contract Services - El Paso Production Company	Support
Pete Frost	Director - Regulatory Affairs, ConocoPhillips Gas and Power Marketing	Support
SERVICES SEGMENT		
John Bretz	Vice President - Gas Marketing, Anadarko Energy Services Company	
Michael Smith	Vice President—Regulatory and Legislative Affairs, Constellation Energy Commodities Group	
Jim Buccigross	Vice President Energy Industry Practice, Group 8760 LLC	
Lyn Maddox	Consultant, Oxadel Consulting, LLC	Support
V A C A N C Y		

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NORTH AMERICAN ENERGY STANDARDS BOARD GEIC Report Vote Tally – February 17, 2006

Retail Electric Quadrant

DISTRIBUTOR SEGMENT		VOTE:
David Koogler	Director – Regulation & Competition, Dominion Virginia Power (SERC NERC Region)	Support
Bill Bourbonnais	Vice President - Transmission, WPS Resources Corporation (MAIN NERC Region)	Support
Ruth Kiselewich	Director Special Projects and Supplier Services, Baltimore Gas & Electric Company (MAAC NERC Region)	Support
Leonard Haynes	Executive Vice President, Supply Technologies, Renewables, and Demand, Southern Company Services (SERC NERC Region)	Support
END USER SEGMENT		
Sonny Popowsky	Consumer Advocate, Pennsylvania Office of Consumer Advocate	Support
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
SERVICES SEGMENT		
Jim Minneman	Director of Business Services, PPL Solutions LLC	Support
V A C A N C Y		
J Cade Burks	President, EC Power	Support
V A C A N C Y		
SUPPLIER SEGMENT		
Peter Kelly-Detwiler	Director of Operations, Constellation NewEnergy	Support
V A C A N C Y		
V A C A N C Y		
Richard Zelenko	General Manager, Dominion Retail Inc.	

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NORTH AMERICAN ENERGY STANDARDS BOARD GEIC Report Vote Tally – February 17, 2006

Wholesale Electric Quadrant

END USER SEGMENT		SUB SEG	VOTE:
John A. Anderson	President and CEO, Electricity Consumers Resource Council (ELCON)	LIND	Support
Jeanne Zaiontz	Director, Regulatory Affairs, BP Energy Co.	LIND	
Carol Guthrie	General Manager, Electric Market Strategies, ChevronTexaco Energy Research and Technology Company	SGEN	
V A C A N C Y		COMPRET	
V A C A N C Y		IOU	
John Reese	Senior Policy Advisor & Director of the Office of Economic Development and Policy, New York State Department of Public Service	REG	
Kevin Burns	Vice President Sales and Marketing, Open Access Technology International, Inc.	AT LARGE	
DISTRIBUTION/LSE SEGMENT		SUB SEG	
Frank Johnson	Senior Vice President Electric Transmission and Distribution, Consumers Energy	IOU	
Mark Crosswhite	Senior Vice President & General Counsel – Generation and Energy Marketing, Southern Company	IOU	
Barry R. Lawson	Manager-Power Delivery, National Rural Electric Cooperative Association	MUNI-COOP	Support
Arthur G. Fusco	Vice President and General Counsel, Central Electric Power Cooperative Inc.	MUNI-COOP	Support
V A C A N C Y		OTHER	
V A C A N C Y		COMPRET	
Bruce Ellsworth	New York State Reliability Council	AT LARGE	Support
GENERATION SEGMENT		SUB SEG	
Belinda Thornton	Senior Manager – Real Time Trading, Tennessee Valley Authority	FED	Support
Charles W. Severance	Manager – Supply & Wholesale Services, Wisconsin Public Service Corporation	IOU	Support
John J. Dellas	Executive Manager, Electric Supply, Consumers Energy	IOU	
Michael Gildea	Executive Director, Regulatory Affairs, Constellation Generation Group	MERC	Support
V A C A N C Y		MUNI-COOP	
Gloria Ogenyi	Director Energy and Market Policy, Conectiv Energy Supply, Inc.	MERC	Support
Ron Mucci	Senior Vice President Shared Services, Williams Power Company	AT LARGE	Support

North American Energy Standards Board

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TRANSMISSION SEGMENT		SUB SEG	VOTE:
Mitchell Needham on behalf of W Terry Boston	Executive Vice President – Transmission/Power Supply Group, Tennessee Valley Authority	FED	Support
V A C A N C Y		ITC	
Paul McCoy	Executive Vice President of Transmission System Operations, Trans-Elect	ITC	Support
Dan Klempel	Director Transmission Regulatory Compliance, Basin Electric Power Cooperative	MUNI-COOP	Support
John E. Lucas	Manager, Transmission Services, Southern Company	IOU	Support
Michael Desselle	Director Public Policy, American Electric Power	IOU	Support
Ken Wiley	President and Chief Executive Officer, Florida Reliability Coordinating Council	AT LARGE	
MARKETER/BROKER SEGMENT		SUB SEG	
Jeff Ackerman	Manager, Colorado River Storage Project Energy Management and Marketing Office, Western Area Power Administration	FED	
R. Scott Brown	Vice President and Director, Exelon Generation Power Team	IOU	Support
Roy True	Manager of RTO Market Development, ACES Power Marketing	MUNI-COOP	
V A C A N C Y		N IOU	
Michael Grim	Director of Markets and Regulation, TXU Business Services	N IOU	Support
Joseph Hartsoe	Vice President and Associate General Counsel, American Electric Power Service Corp.	IOU	
Rick Smead	Director, Navigant Consulting, Inc.	AT LARGE	Support

The subsegments noted in the above roster are:

AT LARGE -- Regional reliability organizations, regional transmission organizations, consultants, service companies, information services and software companies, law firms, and other such organizations that are not specifically encompassed in the other sub-segments for a given segment.

COMPRET – Competitive Retailer (not available to MUNI/COOP, IOU or IOU affiliates)

EU -- End Use (also in another segment)

FED – Federal/State/Provincial

IOU – Investor Owned Utility or IOU Affiliated

ITC – Independent Transmission Company

LIND – Large Industrials (not in other segments)

MERC – Merchant

MUNI-COOP – Municipals, Cooperatives

N IOU –Not IOU affiliated

OTHER -- (not available to MUNI/COOP, IOU or IOU affiliates)

REG -- Regulator

RESCOM -- Residential/Commercial

SGEN -- End Use (Self Generation)

The number of seats within each segment that are allotted to subsegments are controlled through the WEQ Procedures.

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NORTH AMERICAN ENERGY STANDARDS BOARD GEIC Report Vote Tally – February 17, 2006

Retail Gas Quadrant

DISTRIBUTORS SEGMENT		VOTE:
Craig White	Chief Operating Officer, Philadelphia Gas Works	
Glen R. Schwalbach	Assistant Vice President Corporate Planning, Wisconsin Public Service Corporation	Support
Mark T. Maassel	President, Northern Indiana Public Service Company (NiSource, Inc.)	Support
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
END USERS SEGMENT		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
V A C A N C Y		
SERVICE PROVIDERS SEGMENT		
Leigh Spangler	President, Latitude Technologies Inc.	
V A C A N C Y		
Dave Darnell	President & CEO, Systrends Inc.	
Greg Lander	Principal, Commerce Energy Group	Support
V A C A N C Y		
V A C A N C Y		
SUPPLIER SEGMENT		
Kathy Fudali	Manager, Contract Administration, Sprague Energy Corp.	
V A C A N C Y		
V A C A N C Y		
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