

APPENDIX B

APPENDIX B

PLANNING FRAMEWORK

I. Overview.

This Appendix B describes the process to be used by the Midwest ISO in planning the Transmission System. Nothing in this Appendix is intended to restrict or expand existing state laws or regulatory authority.

The following transmission facilities of the Owners shall constitute the Transmission System for which the Midwest ISO shall be responsible for operating and planning by the terms of the Agreement: (i) all networked transmission facilities above 100 kilovolts (hereinafter "kV"); and (ii) all networked transformers whose two (2) highest voltages qualify under the voltage criteria of item (i).

Network transmission facilities (including terminal equipment) are (i) transmission elements capable of carrying power in both directions for sustained periods, and (ii) components that are connected to such transmission facilities and are used for voltage or stability control of the Transmission System, including shunt inductors, shunt capacitors, and synchronous condensers. Appendix H to the Agreement identifies the facilities that constitute the Transmission System for which the Midwest ISO shall have operating and planning responsibility.

The Midwest ISO may direct the Owners to assign Non-transferred Transmission Facilities to its control as part of the Transmission System, subject to obtaining any necessary approvals of federal or state regulatory authorities, when such action is determined to be necessary to relieve a constraint or for security purposes. The

APPENDIX B

Midwest ISO also may require that Owners take back control of facilities included in the Transmission System subject to any such necessary approvals. If an Owner disputes such an order from the Midwest ISO, the dispute shall be resolved pursuant to the dispute resolution provisions set forth in Appendix D to the Agreement.

With regard to Non-transferred Transmission Facilities, the Midwest ISO shall review and comment on the plans developed by the Owners of these facilities. With respect to such facilities, the Midwest ISO shall have only that planning authority necessary to carry out its responsibilities under the Transmission Tariff. Thus, the Midwest ISO, when performing System Impact and Facilities Studies under the Transmission Tariff, shall treat these Non-transferred Transmission Facilities just as it would facilities comprising the Transmission System. Similarly, the Midwest ISO shall require Owners to make Available Transmission Capability (hereinafter "ATC") determinations involving such Non-transferred Transmission Facilities under the Transmission Tariff. The Midwest ISO shall coordinate the analyses of ATC associated with Non-transferred Transmission Facilities with the affected Owners. Any disputes concerning Non-transferred Transmission Facilities shall be subject to the dispute resolution procedures under the Agreement.

The planning of all Non-transferred Transmission Facilities, as well as all distribution facilities, shall be done by the Owners. Furthermore, each Owner, in carrying out its planning responsibilities to meet the reliability needs of all loads connected to the Owner's transmission facilities and to pursue projects that will promote

APPENDIX B

expanded trading in generation markets, to better integrate the grid and to alleviate congestion may, as appropriate, develop and propose plans involving modifications to any of the Owner's transmission facilities which

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APPENDIX B

are part of the Transmission System. All such plans developed by the Owners may be incorporated into the Midwest ISO regional plan, as described in Section VI of this Appendix B. Plans developed by the Owners that involve only Non-transferred Transmission Facilities may be incorporated into the Midwest ISO regional plan, as appropriate. The Owners shall continue to have planning responsibilities for meeting their respective transmission needs in collaboration with the Midwest ISO subject to the requirements of applicable state law or regulatory authority.

II. The Midwest ISO Planning Staff And The Planning Advisory Committee.

The planning function of the Midwest ISO shall be the responsibility of the Midwest ISO Planning Staff (hereinafter "Planning Staff"). The process for carrying out the planning of the Midwest ISO shall be collaborative with Owners, Users, and other interested parties. The Midwest ISO shall be organized to engage in such planning activities as are necessary to fulfill its obligations under the Agreement and the Transmission Tariff. In exercising such authority, the Midwest ISO shall (i) evaluate and respond to requests for transmission service that extend into or fall within the "Planning Time Horizon" (defined as two (2) weeks and beyond); and (ii) develop a comprehensive Midwest ISO-wide transmission plan (hereinafter the "Midwest ISO Plan"). In order to carry out this planning function, the Planning Staff shall have the following responsibilities, set forth in more detail in subsequent Sections of this Appendix B: (i) to calculate ATC in the Planning Time Horizon; (ii) to process transmission service requests in the Planning Time Horizon; (iii) to develop cost-effective plans to resolve transmission constraints that would otherwise preclude

APPENDIX B

requested transmission service; (iv) to create the Midwest ISO Plan by integrating, evaluating, and modifying the transmission plans, and other findings from (a) Facilities Studies, (b) plans and analyses developed by the individual Owners, and/or sub-regional groups, to define needs within the Owner's system(s), (c) plans and analyses developed by the Planning Staff to define regional needs, and (d) Planning Staff analyses giving consideration to information from the Planning Advisory Committee (established under this Appendix B) and other sources. The Midwest ISO shall make the final determination in the process, subject to the Dispute Resolution procedures under the Agreement and subject to review by the FERC or state regulatory authorities where appropriate.

There is hereby created a Planning Advisory Committee consisting of one (1) representative from each of the constituent groups represented on the Advisory Committee established pursuant to Article Two, Section VI, Paragraph A of the Agreement. The Planning Advisory Committee shall be a source of input to the Planning Staff concerning the development of the Midwest ISO Plan. The Planning Staff shall exercise its discretion in how it utilizes this advice in carrying out its responsibilities.

III. Calculation Of ATC.

The Planning Staff shall be responsible for calculating ATC of the Transmission System for the Planning Time Horizon. In calculating ATC, the Planning Staff shall: (i) take into account transmission limits that may appear regardless of whether such limits involve transferred Transmission System facilities or Non-transferred Transmission

APPENDIX B

Facilities; (ii) use planning criteria which are compatible with operations, including the use of appropriate equipment ratings; (iii) follow the general principles set forth in the NERC documents, *Transfer Capability* (May 1995) and *Available Transfer Capability: Definition and Determination* (June 1996), as those documents may be revised from time to time; (iv) provide for projected load growth, all relevant committed transactions and their resulting power flows throughout the interconnection; and (v) use appropriate analytical tools to determine thermal, voltage, and stability constraints.

The Planning Staff shall adhere to applicable reliability criteria of NERC, and regional reliability councils, or successor organizations, and Owner's planning criteria filed with federal, state, or local regulatory authorities. In the event that the Planning Staff questions the appropriateness of such Owner's planning criteria, the matter may be resolved through the Dispute Resolution process provided for in Appendix D to the Agreement. Until any such dispute is resolved, the Owner's criteria shall govern. The Planning Staff shall also apply equipment capability ratings provided by the Owners for their respective Transmission System facilities. The process to be used by the Planning Staff to validate the ratings is discussed in Section V of this Appendix B. Disputes regarding equipment capability ratings may be resolved through the Dispute Resolution process provided for in Appendix D to the Agreement. The Planning Staff shall at all times comply with the procedures of the Transmission Tariff for calculating ATC.

IV. Evaluation Of Transmission Service Requests.

The Planning Staff shall receive, evaluate, and respond to all requests for transmission service that extends into or occurs within the Planning Time Horizon and

APPENDIX B

involves the use of the Transmission System. With respect to all such requests, the Planning Staff shall analyze and make the determination on access to the Transmission System, including the amount of firm (non-recallable) and/or non-firm (recallable) service which the Transmission System can support. The Planning Staff shall document all requests for transmission service, the disposition of those requests, and supporting data. The Planning Staff shall coordinate with the Owners to process requests for service involving the use of Non-transferred Transmission Facilities and distribution facilities relating to service under the Transmission Tariff. The Planning Staff shall consult with the transmission planning representatives of the Owners and/or operators of the affected transmission facilities on matters such as equipment, procedures, maintenance, reliability, and public or worker safety. The Planning Staff shall provide the transmission planning representatives of each Owner with sufficient information to model local conditions and to monitor local consequences of Midwest ISO decisions by the Planning Staff related to ATC values and requests for transmission service. Any dispute regarding ATC calculations shall be subject to the applicable Dispute Resolution procedures.

V. Resolution Of Transmission Constraints.

When the evaluation of posted ATCs reveals apparent transmission constraints that would preclude a requested firm transaction, the Planning Staff shall investigate the ability of operating guides and redispatch of generation to permit the transaction to proceed, to the extent that available information, in the form of existing studies and

APPENDIX B

models, permit. In evaluating and resolving transmission constraints, the Planning Staff shall act in a manner consistent with the provisions of the Transmission Tariff.

The Planning Staff shall follow the procedures of the Transmission Tariff when conducting System Impact and Facilities Studies. Upon receipt of an approved Facilities Study Agreement, the Planning Staff shall form, chair, and direct the activities of an Ad Hoc Planning Committee that includes representatives of all affected Owners. The Ad Hoc Planning Committee shall develop expansion alternatives, perform the described studies, and develop the resulting options, costs, and service agreement which shall be provided to the transmission customer by the Planning Staff.

Each Owner shall file with the Midwest ISO information regarding the physical ratings of all of its equipment in the Transmission System. This information is intended to reflect the normal and emergency ratings routinely used in regional load flow and stability analyses. In carrying out its responsibilities, the Midwest ISO shall apply ratings that have been provided by the respective Owners and have been verified and accepted as appropriate by the Midwest ISO where such ratings affect Midwest ISO reliability. When requested by the Midwest ISO, Owners shall provide specific methods by which the ratings of equipment are calculated. If the Planning Staff and the Owners' respective planning representatives cannot reach agreement on a rating, the dispute shall be resolved through the Dispute Resolution process provided in Appendix D to the Agreement. However, the Midwest ISO shall use the ratings provided by the Owner unless and until such ratings are changed through the Dispute Resolution process or by voluntary agreement with the affected Owner.

APPENDIX B

VI. Development Of The Midwest ISO Transmission Plan.

The Planning Staff, working in collaboration with representatives of the Owners and the Planning Advisory Committee, shall develop the Midwest ISO Plan, consistent with Good Utility Practice and taking into consideration long-range planning horizons, as appropriate. The Planning Staff shall develop this plan for expected use patterns and analyze the performance of the Transmission System in meeting both reliability needs and the needs of the competitive bulk power market, under a wide variety of contingency conditions. The Midwest ISO Plan will give full consideration to all market participants, including demand-side options, and identify expansions needed to support competition in bulk power markets and in maintaining reliability. This analysis and planning process shall integrate into the development of the Midwest ISO Plan among other things: (i) the transmission needs identified from Facilities Studies carried out in connection with specific transmission service requests; (ii) the transmission needs identified by the Owners in connection with their planning analyses to provide reliable power supply to their connected load customers and to expand trading opportunities, better integrate the grid and alleviate congestion; (iii) the transmission planning obligations of an Owner, imposed by federal or state law(s) or regulatory authorities, which can no longer be performed solely by the Owner following transfer of functional control of its transmission facilities to the Midwest ISO; (iv) the inputs provided by the Planning Advisory Committee; and (v) the inputs, if any, provided by the state regulatory

APPENDIX B

authorities having jurisdiction over any of the Owners. In the course of this process, the Planning Staff shall seek out opportunities to coordinate or consolidate, where possible, individually defined transmission projects into more comprehensive cost-effective developments subject to the limitations imposed by prior commitments and lead time constraints. This multi-party collaborative process is designed to ensure the development of the most efficient and cost-effective Midwest ISO Plan that will meet reliability needs and expand trading opportunities, better integrate the grid, and alleviate congestion, while giving consideration to the inputs from all stakeholders.

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APPENDIX B

The Planning Staff shall test the Midwest ISO Plan for adequacy and security based on all applicable criteria. The Midwest ISO Plan shall adhere to applicable reliability requirements of NERC, regional reliability councils, or successor organizations, Owners' planning criteria filed with federal, state, or local regulatory authorities, and applicable federal, state and local system planning and operating reliability criteria. If the Planning Staff and any Owner's planning representatives cannot reach agreement on any element of the Midwest ISO Plan, the dispute may be resolved through the Dispute Resolution process provided in Appendix D to the Agreement or by the FERC or state regulatory authorities, where appropriate. The Midwest ISO Plan shall have as one of its goals the satisfaction of all regulatory requirements. That is, the Midwest ISO shall not require that projects be undertaken where it is expected that the necessary regulatory approvals for construction and cost recovery will not be obtained.

The Planning Staff shall present the Midwest ISO Plan, along with a summary of relevant alternatives that were not selected, to the Board for approval on a biennial basis, or more frequently if needed. The proposed Midwest ISO Plan shall include specific projects already approved as a result of the Midwest ISO entering into service agreements with transmission customers where such agreements provide for identification of needed transmission construction, its timetable, cost, and Owner or other parties' construction responsibilities. Ownership and the responsibility to construct facilities which are connected to a single Owner's system belong to that Owner, and that Owner is responsible for maintaining such facilities. Ownership and the responsibilities to construct facilities which are connected between two (2) or more Owners' facilities belong

APPENDIX B

equally to each Owner, unless such Owners otherwise agree, and the responsibility for maintaining such facilities belongs to the Owners of the facilities unless otherwise agreed by such Owners. Finally, ownership and the responsibility to construct facilities which are connected between an Owner(s)' system and a system or systems that are not part of the Midwest ISO belong to such Owner(s) unless the Owner(s) and the non-Midwest ISO party or parties otherwise agree; however, the responsibility to maintain the facilities remains with the Owner(s) unless otherwise agreed.

If the designated Owner is financially incapable of carrying out its construction responsibilities or would suffer demonstrable financial harm from such construction, alternate construction arrangements shall be identified. Depending on the specific circumstances, such alternate arrangements shall include solicitation of other Owners or others to take on financial and/or construction responsibilities. Third-parties shall be permitted and are encouraged to participate in the financing, construction and ownership of new transmission facilities as specified in the Midwest ISO Plan. In the event interest among other Owners or other entities is not sufficient to proceed, all Owners, subject to applicable regulatory requirements, shall be responsible for sharing in the financing of the project and/or hiring of a contractor(s) to construct the needed transmission facility; provided, however, the Owners' obligations under this sentence shall be subject to the Owners being satisfied that they will be compensated fully for their investments and will not be subject to additional regulatory requirements, unless the Owners otherwise agree to waive either or both of these requirements

APPENDIX B

Approval of the Midwest ISO Plan by the Board certifies it as the Midwest ISO's plan for meeting the transmission needs of all stakeholders subject to any required approvals by federal or state regulatory authorities. The Midwest ISO shall provide a

APPENDIX B

copy of the Midwest ISO Plan to all applicable federal and state regulatory authorities. The affected Owner(s) shall make a good faith effort to design, certify, and build the designated facilities to fulfill the approved Midwest ISO Plan. However, in the event that a proposed project is being challenged through the Dispute Resolution process under the Agreement, the obligation of the Owners to build that specific project (subject to required approvals) is waived until the project emerges from the Dispute Resolution process as an approved project. The Board shall allow the Owners to optimize the final design of specific facilities and their in-service dates if necessary to accommodate changing conditions, provided that such changes comport with the approved Midwest ISO Plan and provided that any such changes are accepted by the Midwest ISO. Any disagreements concerning such matters shall be subject to the Dispute Resolution process under Appendix D to the Agreement.

The Planning Staff shall assist the affected Owner(s) in justifying the need for, and obtaining certification of, any facilities required by the approved Midwest ISO Plan by preparing and presenting testimony in any proceedings before state or federal courts, regulatory authorities, or other agencies as may be required. The Midwest ISO shall publish annually, and distribute to all Members and all appropriate state regulatory authorities, a five-to-ten-year (5-to-10-year) planning report of forecasted transmission requirements. Annual reports and planning reports shall be available to the general public upon request.

APPENDIX B

VII. Planning Responsibilities Of Owners.

To fulfill their roles in the collaborative process for the development of the Midwest ISO Plan, the Owners shall develop expansion plans for their transmission facilities while taking into consideration the needs of (i) connected loads, including load growth, (ii) new customers and new generation sources within the Owner's system, and (iii) known transmission service requests. Any plans that call for modifications to the Transmission System which would significantly affect ATC must be approved by the Midwest ISO before being implemented. However, the Midwest ISO shall develop a streamlined approval process for reviewing and approving projects proposed by the Owners so that decisions will be provided to the Owner within thirty (30) days of the projects submittal to the Midwest ISO unless a longer review period is mutually agreed upon. Any dispute concerning such matters shall be subject to the Dispute Resolution procedures under Appendix D to the Agreement. In the event that the Midwest ISO fails to act or produce results through the Dispute Resolution procedures under the Agreement within a reasonable time (as determined by the Board) of the Owner's submission of its proposed projects, approval of the proposed project(s) by the Midwest ISO shall be automatically conveyed to the affected Owner(s), subject to all requisite approvals.

Owners shall provide to the Planning Staff any necessary modeling or supporting data, planning criteria applicable to the Owner's system, and system-specific operating procedures. Owners shall carry out other duties deemed appropriate by the Owners that support the objectives of the Midwest ISO planning process, the calculation of ATC,

APPENDIX B

or regional reliability analyses. Owners shall participate in the integration and testing of the Midwest ISO Plan. Owners shall serve on Ad Hoc Planning Committees established by the Planning Staff to respond to transmission service requests and other matters. Owners shall also calculate ATC at points of delivery to or receipt from Non-transferred Transmission Facilities and distribution facilities.

VIII. Coordination Between Midwest ISO Operating And Planning Staffs.

The Planning Staff shall provide support to the Midwest ISO Operating Staff (hereinafter "Operating Staff") in determining and posting ATC during the Operating Time Horizon (as defined by the Operating Staff) and in developing and reviewing operating procedures. The Planning Staff also shall assist the Operating Staff by performing operational planning assessments for near-term system configurations. Within their respective time horizons, the Operating and Planning Staffs shall have the same general responsibilities for determining whether the Transmission System can accommodate a specific transaction. The Planning Staff shall be responsible for all responses to requests for transmission service that require an expansion of the Transmission System or Non-transferred Transmission Facilities.

IX. Miscellaneous Responsibilities Of Planning Staff.

Among its general responsibilities, the Planning Staff shall: (i) review and comment on Owners' transmission plans; (ii) provide general oversight of all studies performed by Owners for the Midwest ISO; (iii) identify alternatives for further study and review that could increase the efficient and economic use of the Transmission System; (iv) analyze and assess the Transmission System periodically to ensure operational

APPENDIX B

reliability, adequacy, and security, and that the long-term needs of transmission customers are being met; (v) facilitate communications among Owners, transmission customers, generation suppliers, and other stakeholders; and (vi) periodically monitor real-time data to identify emerging trends that require modification of planning assumptions to assure the reliable operation of the Transmission System in the future.