



MISO-PJM Order 1000 Interregional Planning Compliance Proposals

January 16, 2013
MISO-PJM Order 1000
Interregional Workshop

Model and Data Exchange

- **Exchanged and reviewed draft proposals**
- **General, high-level agreement on most substantive aspects**
 - Data to be shared and timing
 - Broadly, two-pronged approach – i) annual requirement, and ii) additional data exchange upon request
- **Working on drafting revised JOA language**
- **Expect to share draft language at next meeting**

- **Current JOA has provisions for data exchange upon request**
- **Order 1000 compliance requirement will expand that to:**
 - Mandatory annual exchange
 - Additionally, coordination upon request
- **Proposal to be configured to limit modifications to existing planning processes**
- **Compliance obligation is a another key consideration**
- **Proposing annual model exchange to occur around March/April timeframe**
 - Timeline fits well with the current planning/model development practices

- **Annual information exchange:**
 - Powerflow models for the planning horizon that include planned generation and transmission facilities and seasonal load projections
 - System stability models with detailed dynamic modeling of generators and other active elements
 - Production cost models and the data and assumptions used in their creation
 - Key assumptions used in development of these models
 - Contingency lists for powerflow and dynamics analysis
- **Through the planning process, parties can request updates to modeling information as needed.**

- **Additionally, upon request:**
 - Generator interconnection and transmission service requests and study information
 - System expansion plans and status
 - Transmission system maps
 - Other relevant information, as available

- **Stakeholder Comments – Interregional models**
 - Develop common Interregional models
 - Make all Interregional models public
 - Improve IPSAC with stakeholder review and approval authority of models used in interregional study
- **Response**
 - Interregional models to be developed consistent with study needs
 - Models shared per confidentiality requirements, as they are today
 - Models used in interregional studies will be developed collaboratively through IPSAC participation

- **Stakeholder Comments – Regional Planning**
 - Joint monitored facilities and contingency lists to be used in each region's planning process
 - Specify that models and data exchanged annually should be used in each RTO's respective MTEP-RTEP process
 - Develop joint reliability and economic models to use in each RTO's regional planning process
- **Response**
 - Annual data exchange includes contingency lists
 - Regional planning model development is coordinated between MISO and PJM
 - Neighboring region's data will be modeled consistent with respective regional planning processes



JRPC and IPSAC Governance and Responsibilities

Joint RTO Planning Committee - JRPC

- **Covered in Section 9.1.1 of the JOA**
- **Comprised of representatives of MISO and PJM staff**
- **Chair for the JRPC is rotated between MISO and PJM**
 - Responsible for scheduling and administering meetings of the JRPC
- **Responsible for coordinating the coordinated system planning done pursuant to the JOA**

JRPC Continued

- **Existing Responsibilities**

- Develop common power system analysis models to perform coordinated system planning
- Prepare a Coordinated System Plan
- Coordinate all planning under Article IX of the JOA
- Maintain an internet site and electronic lists for communicating information related to the coordinated planning process
- Meet at least semi-annually to review coordinated transmission planning activities

JRPC Continued

- **Existing Responsibilities Continued**

- Support the review by any federal or provincial agency of elements of the Coordinated System Plan
- Support the review by multi-state entities to facilitate the additional inter-state transmission facilities
- Establish working groups as necessary to provide adequate review and development of regional plans
- Establish a schedule for rotation of various responsibilities

- **Proposed enhancements**

- Add a responsibility to: conduct a review of the Parties regional plans to identify issues that may be able to be solved more efficiently with an interregional project, including:
 - Review with IPSAC identified transmission issues
 - Determine whether an interregional study should be performed taking into consideration input from IPSAC
 - Produce report documenting review of transmission issues and recommendation
- Clarify responsibilities when a Coordinated System Plan is performed

Interregional Planning Stakeholder Advisory Committee - IPSAC

- **Codified in Section 9.1.2 of the JOA**
- **Purpose – facilitate stakeholder review and input into coordinated system planning**
- **Membership – consists of stakeholder participants in joint stakeholder meetings**
- **Meets no less than prior to the start of each cycle of the coordinated planning process, during the development of the Coordinated System Plan, and upon completion of the plan to review final results**

- **Proposed Enhancements**

- Clarify IPSAC participation is open to all interested stakeholders
- Meeting Frequency – IPSAC meetings will be held to facilitate the annual issues review process
 - An initial meeting to review identified transmission issues
 - A follow-up meeting to review the decision of the JRPC related to potential interregional solutions
 - Meetings related to specific interregional studies will be scheduled as needed to facilitate stakeholder review and input

- **Proposed Enhancements**

- Add language to the JOA to clarify IPSAC responsibilities
 - Review identified transmission issues from MISO, PJM and stakeholders
 - Provide input to the JRPC based on review of identified transmission issues
 - Provide input on interregional studies including:
 - Scope
 - Assumptions
 - Solution development
 - Review of results and Coordinated System Plan

Annual Issues Evaluation

- **Current JOA in Section 9.3 addresses Coordinated System Planning with a requirement to perform an interregional study every three years**
- **Proposal for Order 1000 is to incorporate an annual review of identified transmission issues to determine when an interregional study is needed**
 - Would remove the requirement to perform an interregional study every three years
 - Frequency of interregional study to be determined based on agreement of JRPC taking into consideration input of the IPSAC

- **Inputs from three areas**
 - MISO identified transmission issues from regional planning process
 - PJM identified transmission issues from regional planning process
 - Other Stakeholders identified transmission issues
- **Notice of IPSAC meeting on annual issues evaluation will be communicated sufficiently in advance to allow stakeholders to provide input**
- **Determine JRPC need for an interregional study to evaluate solutions to identified transmission issues**

- **IPSAC will discuss the identified issues and provide input to the JRPC**
- **JRPC will meet within 45 days of IPSAC meeting to determine whether an interregional study should be performed taking into consideration IPSAC input**
- **Interregional study is initiated with agreement of the JRPC representatives**
 - Start date for study to not exceed 6 months from the JRPC meeting agreeing to perform an interregional study
- **Within 30 days of the JRPC decision on starting an interregional study an IPSAC meeting will be scheduled**

Overview of Coordinated System Planning Process

Overview of Coordinated System Plan Process²

- **Current JOA in Section 9.3.5 outlines development of Coordinated System Plan**
- **Proposal for Order 1000 is to clarify/enhance provisions when performing a Coordinated System Plan, including:**
 - Scope
 - Assumptions
 - Timeline
 - Development of Joint Models
 - Study types
 - Solution Identification and Recommendation Process
 - Deliverables
 - Coordinated System Planning report
 - IPSAC Role

Regional review

- **Order 1000 requires each region to approve the interregional project**
- **Current JOA specifies that cross-border BRPs or MEPs must be approved by MISO and PJM**
- **Proposed enhancement would be to establish process for regional review and approval of interregional project**

Interregional Planning Process Timeline - Example

Interregional Process Timeline - Example²⁶

