JCM Initiatives Update



August 2007





Joint and Common Market Initiatives

Complete Cost

3 Year Gross Benefit

Evaluation

Cost 3 Year Gross Benefit

Implementation

Cost 3 Year Gross Benefit

Not Recommended

Cost 3 Year Gross Benefit

					3 real Gross Benefit		3 13cm 31303 25115110	
			2006		2007		2008	
		FTR Market Convergence	Alignment of FTR Timelines and Products	\$600,000			Cross Border FTRs in the allocations	\$4,000,000 Analyzing
	1		(Note: All MISO cost)	\$3,008,657			Cross border FTRs in auctions	\$8,000,000 \$4,374,524
	2	Price Rationalization and Convergence at the Border	,		PJM implementation of marginal losses	\$600,000 N/A		
					Alternative Border Pricing Point Calculation	\$200,000 N/A		
	3	Reduce Hurdle Rate	Alignment of PJM Operating Reserves and MISO Revenue Sufficiency Guarantee (Note: All MISO cost)	\$600,000 \$3,764,432	Depancaking of PTP ancillary services (Control Area Services, T.O. Control Center Services, Reactive, Black Start)	\$400,000 (\$2,505,757)		
	4	Broader Price Transparency and Common Reporting	Existing MISO & PJM Websites Linking of sites Data Available at Both Sites (LMPs, Tie Flows, Loads)	\$500,000	Standard Data Exchange (Web Services) LMPs, Contingencies, Loads, Dispatch	\$3,000,000	Implementation of single MISO & PJM Website (Individual Websites go away)	\$750,000
				\$1,952,165	Signals, Outages, Emergency Event/Notifications	\$2,547,477		N/A
			Common Search Capabilities	\$200,000 \$1,125,000			Standard Data Visualization and Reporting Portal	\$8,500,000
_			Enhanced Joint Website to Host Joint meeting and Events Calendar, Joint Documents and Reports	\$600,000 \$1,125,000		Create a single MISO & PJM Data and Report Portal \$4,158,1		\$4,158,174
mmercia	5	Increased Market Opportunities	Moving JOUs between markets	\$100,000 \$156,851			Shared Regulation Market	\$8,000,000 Analyzing
Š	6	Operational Consistency	Common Long Term Transmission Queue	\$200,000 \$1,091,108	Common Time Zones (Note: All PJM cost)	\$5,000,000 N/A	Single Resource Adequacy Solution	\$8,000,000 N/A
			MISO Ramp Viewer	\$150,000 \$913,703	Central location to view both ramp viewers	\$100,000 \$1,527,405	Common Ramp Portal	\$750,000 \$2,091,108
			Alignment of OASIS Business Practices	\$500,000 \$1,365,867	Coordinated OASIS	\$1,200,000 Analyzing		
			Single OASIS	\$8,000,000 \$6,168,760	Reserve Sharing	\$8,000,000 N/A		
			Common Treatment of Dynamic Schedules/Pseudo-Ties	\$200,000 \$382,934	Market to Market Relaxation of Constraints	\$80,000 \$1,000,000		
			Investigation of Loop Flow Across the Combined Footprint	N/A Analyzing	Dynamic Dispatchable Transactions and Schedules	Analyzing Analyzing	Netting in the IDC	Analyzing Analyzing
			Market Flow Threshold Assessment	N/A Reliability	Market Flow Threshold Reported to IDC	\$300,000 Reliability		
					Outage Coordination	N/A Reliability		
	7	Single Market	Year 1 - Rule Alignment & Market Portal Design	\$15,000,000 \$5,000,000	Year 2 - Initial Market Portal Implementation	\$40,000,000 \$27,000,000	Year 3-5 - Implementation of Single Market	\$50,000,000 \$34,700,000
ability	1	Emergency Energy Agreement	Alignment of Agreements and Practices \$100,000 Reliability				Super Regional Reserve Sharing	Analyzing Analyzing
Reli	2	Black Start and Restoration			Alignment of Agreements and Practices	\$500,000 \$936,000		
an	1	Joint Expansion Planning and Common Deliverability Studies	Joint Expansion Planning (Coordinated System Plan)	\$20,000 Reliability	Cross Border Cost Sharing of Expansions	Reliability		
ď	2		Common Deliverability Studies	\$100,000 Reliability				
Total		Costs 3-Year Gross Benefit	2006	\$3,770,000 \$14,885,717	2007	\$1,580,000 \$3,463,405	2008	\$750,000 \$2,091,108





JCM Committed







FTR Alignment

Milestone Summary

- C Analyze Product
- C Stakeholder Review
- C Submit Filings to FERC
- C Develop Business Rules
- C Finalize Functional Requirements
- G Design and Development
- G Build and Test
- G Update Process and Procedures
- G Customer Training
- G Cutover to Production Phase 1
- G Cutover to Production Phase 2
- G

Overall Status

JCM Leads

- Midwest ISO: E. Skiba
- PJM: S. Bresler

Legend

- C Completed
- G On Target No Issues
- Y Need to watch Some Issues
- R In Jeopardy Significant Issues

KEY ACCOMPLISHMENTS

- Midwest ISO filed answers to protests of its July 16, 2007, 60-day compliance filing.
- Midwest ISO final design has been approved.
- Draft Midwest ISO Business Practice Manual revisions reflecting ARR/LTTR changes prepared for stakeholder review.
- FERC has approved a PJM intra-planning year transmission rights allocation similar to the current Midwest ISO process.

UPCOMING ACTIVITIES

- PJM to submit status report regarding continued stakeholder discussion on potential uplift mechanisms to FERC by November 30, 2007.
- PJM stakeholders are actively discussing the possibility of implementing a seasonal ARR/FTR process similar to the Midwest ISO process.
- PJM Markets and Reliability Committee will vote to endorse a 3-year, Long-Term FTR Auction proposal at its October meeting.
- Midwest ISO capital project final approval.
- Midwest ISO software construction expected to start September 4, 2007.
- Midwest ISO to begin working with stakeholders to discuss 6 month compliance filing required by May 17, 2007, FERC Order.

ISSUES & CONCERNS





OR & RSG Alignment



Milestone Summary C Analyze Product R Stakeholder Review Develop System Requirements Modify Applications Conduct Testing Implement Changes R Overall Status

JCM Leads

- Midwest ISO: E. Skiba
- PJM: S. Bresler

C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

- On July 25, 2007, PJM Market Implementation Committee approved a package of Balancing Operating Reserve credit and allocation changes, which will be forwarded to the Markets and Reliability Committee.
- Midwest ISO has developed strawman Revenue Sufficiency Guarantee (RSG) Redesign Whitepaper

UPCOMING ACTIVITIES

- Continued PJM Stakeholder meetings.
- PJM Markets and Reliability Committee vote on package of Balancing Operating Reserves credit and allocation changes to be voted on in October.
- Midwest ISO ongoing review of RSG Redesign Whitepaper with Stakeholders.
- Midwest ISO to file comments to complaints filed at FERC on Midwest ISO current RSG approach.

ISSUES & CONCERNS

• Clearly different camps in terms of causation versus predictability (unclear that we will get to common rules).





Relaxation of Constraints



C Tech. Software Design Document C Obtain Estimates from Vendor Modify Applications C Onduct Testing Implement Changes

JCM Leads

Overall Status

- Midwest ISO: T. Mallinger
- PJM: S. Bresler

C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

- Functional specification has been updated and is under review.
- Initial test plan has been developed by the Midwest ISO.
- Requirements have been turned over for vendor to complete the detail design.

UPCOMING ACTIVITIES

- Agreement changes will be taken through the RTOs stakeholder processes.
- RTOs to explore potential of partial implementation of initiative before Spring 2008.
- Finalize functional specifications and detail design.
- Finalize vendor software delivery schedule.
- PJM Markets and Reliability Committee will vote on the necessary PJM agreement changes at September 26, 2007, meeting.

ISSUES & CONCERNS

 Based on Midwest ISO's software priority and to avoid duplicative effort required to implement this initiative in the current production environment and the new ASM software, the project has been scheduled for Spring 2008.





Central Location to View Both Ramp Viewers

Milestone Summary C Develop Business Requirements Design Central Location & Select Appropriate Technology Build and Test Central Location Provide Training and Implement Changes G Overall Status

JCM Leads

- Midwest ISO: E. Skiba
- PJM: C. Advena

C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

- RTO's will exchange 48 hours of Ramp information for display in each RTO's Ramp Viewer applications.
- Midwest ISO and PJM will exchange data for display in their internal applications.
- Midwest ISO has approved funding release for this initiative.
- PJM has submitted Project Funding Request to release funds for project.

UPCOMING ACTIVITIES

• Revise timeline based on priorities of technical resources.

ISSUES & CONCERNS

No issues at this time.





Black Start and Restoration



Milestone Summary C Midwest ISO Technical Whitepaper Determine Tariff, Regulatory, Reliability Issues Y Obtain Midwest ISO Stakeholder Approval Y Compare Midwest ISO & PJM Processes Y Midwest ISO Develop Tariff Changes G Submit Regulatory Filings Modify Policies, Procedures, Applications, Systems Provide Training and Implement Changes

JCM Leads

Overall Status

- Midwest ISO: E. Skiba
- PJM: C. Advena

C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

- Midwest ISO Market Subcommittee approved motion on tariff framework for Black Start and Restoration on July 10, 2007.
- Draft versions of Black Start tariff language have been developed and are under review: a) the individual Transmission Operators are responsible for arranging for Black Start Service and complying with NERC System Restoration and Black Start reliability standards. b) the Transmission Provider (Midwest ISO) will independently determine the need for Black Start to comply with NERC standards.

UPCOMING ACTIVITIES

 Review of proposed tariff language with Midwest ISO Market Subcommittee.

ISSUES & CONCERNS





Cross Border Cost Sharing of Expansion

Milestone Summary

- File Policy Baseline Reliability Projects
- C Order on Reliability Filing
- C Compliance Filing on Reliability Filing
- C File Extensions with FERC
- C FERC issues Order for Technical Conference
- C Conduct Technical Conference
- C File 2nd Extension for Econ X Border Allocation
- FERC Staff submit findings to Commission
- FERC Issues Order
- R Continue Stakeholder discussions
 - File Policy Cross Border Alloc. Econ. Project Costs

R

Overall Status

JCM Leads

- Midwest ISO: E. Skiba
- PJM: S. Pincus

Legend

- **C** Completed
- G On Target No Issues
- Y Need to watch Some Issues
- R In Jeopardy Significant Issues

KEY ACCOMPLISHMENTS

- FERC granted indefinite extension for economic cross border cost allocation sharing compliance filing.
- FERC issued order on PJM rate design on April 19th (Docket EL05-121-000).

UPCOMING ACTIVITIES

- FERC decisions on Midwest ISO and PJM latest filings, on the methodology for reliability project cross-border cost allocation methodology.
- FERC Order establishing a schedule for completing stakeholder processes and filing proposed economic project cross-border cost allocation methodology.

ISSUES & CONCERNS





JCM Further Analysis







Market Flow Threshold Reported to IDC

Milestone Summary Develop Detail Project Plan Vendor Requirement Specifications System Development Test System Changes Mock Production Run Cutover to Production G Overall Status

JCM Leads

- Midwest ISO: T. Mallinger
- PJM: J. Burlew

Legend C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

- PJM began 12-month field test starting on May 30, 2007.
- Midwest ISO and PJM submitted 30-day compliance filing on changes to CMP.

UPCOMING ACTIVITIES

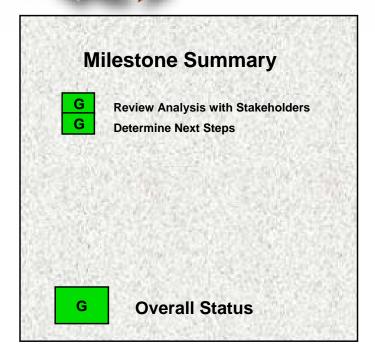
- Midwest ISO to begin Field Test in Fall 2007.
- Midwest ISO will submit compliance filing 20 days prior to its participation in the 12-month field test.
- Initial results of Market Flow Threshold Test to be reviewed at the NERC Operating Reliability Subcommittee Meeting, September 19-20, 2007.

ISSUES & CONCERNS





Dynamic Dispatch. Sched./Dispatch. Trans.



JCM Leads

- Midwest ISO: T. Mallinger
- PJM: S. Bresler

C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

- Midwest ISO and PJM have completed initial analysis on proxy bus prices. When differences occur in proxy bus prices the differences generally converged within relatively short time frames.
- Results of analysis on proxy bus prices was presented at the June 1, 2007, Joint Stakeholder Meeting.

UPCOMING ACTIVITIES

- RTOs are continuing analysis of border price differentials since the PJM Marginal Losses initiative was implemented.
- RTOs are conducting preliminary analysis to determine if initiative should be taken off "hold" status.

ISSUES & CONCERNS





JCM Hold







Coordinated OASIS



Milestone Summary

Perform Analysis

Stakeholder Review

Develop Cost Benefits/Estimate

Conduct Internal Stakeholder Reviews

Review Results at Joint Stakeholder

Meetings

Overall Status

JCM Leads

Midwest ISO: E. Skiba

• PJM: C. Advena

Legend

Completed

On Target - No Issues

Need to watch - Some Issues

In Jeopardy - Significant Issues

KEY ACCOMPLISHMENTS

• At the June 1, 2007, JCM Joint Stakeholder meeting it was agreed to place this initiative on hold pending definition of NAESB OASIS changes resulting from FERC Order Number 890.

UPCOMING ACTIVITIES

• In the August 22, 2007, NAESB work plan the Group 1 changes to OASIS are scheduled to be posted for formal comments by the end of third quarter 2007. Group 1 changes include posting of ETC, annotation for ATC, load forecast and actual load, re-bid of partial service and pre-confirmation priority.

ISSUES & CONCERNS





Netting in the IDC



Milestone Summary

- G Conduct Analysis
- G Develop Draft Recommendation
- G Review Preliminary Recommendation with ORS
- G Conduct Detail Analysis/Cost Estimates
 - Prepare Final Recommendation to ORS
- G Present Recommendation to ORS
 - ORS Action on Recommendation
- G

Overall Status

JCM Leads

- Midwest ISO: T. Mallinger
- PJM: J. Burlew

Legend

- **C** Completed
- G On Target No Issues
- Y Need to watch Some Issues
- R In Jeopardy Significant Issues

KEY ACCOMPLISHMENTS

• Decision was made to place this initiative on hold until the market flow threshold field test has started for Midwest ISO, PJM, and SPP.

UPCOMING ACTIVITIES

ISSUES & CONCERNS

No issues at this time.





Shared Regulation Market



Milestone Summary

G Resolve CA Consolidation Issues
G Analyze Options Shared Reg. Mkt.
G Perform Detail Study
Identify Changes Policies, Procedures, applications, etc.

Review Results with Stakeholders

Go/No Go Decision

G Overall Status

JCM Lead

• Midwest ISO: T. Mallinger

• PJM: S. Bresler

Legend

C Completed

G On Target – No Issues

Y Need to watch – Some Issues

R In Jeopardy – Significant Issues

KEY ACCOMPLISHMENTS

UPCOMING ACTIVITIES

• Analysis on this initiative will begin in 2008 after Midwest ISO opens its Ancillary Services Market.

ISSUES & CONCERNS





Cross Border FTRs in the Allocations

Milestone Summary Determine allocation process changes to create alignment Define business rules for resolving differences Perform Detail Cost/Benefit Analysis Review Results with Stakeholders Go/No Go Decision Overall Status

KEY ACCOMPLISHMENTS

UPCOMING ACTIVITIES

• Analysis on this initiative will begin in late 2007.

JCM Lead

- Midwest ISO: R. Doying
- PJM: S. Bresler

C Completed G On Target – No Issues Y Need to watch – Some Issues In Jeopardy – Significant Issues

ISSUES & CONCERNS





Completed







Completed Initiatives



Committed Initiatives

- Midwest ISO Ramp Viewer
- Moving JOUs Between Markets
- Broader Price Transparency Common Search Engine
- Broader Price Transparency Enhanced Joint Website
- Broader Price Transparency Link Midwest ISO PTP and PJM eData sites
- Common Long-Term Transmission Queue
- Alignment of OASIS Business Practices
- Emergency Energy Agreements Alignment of Agreements and Practices (Decision not to proceed with initiative)
- Joint Expansion Planning (Coordinated System Plan)
- Common Deliverability Studies
- Common Treatment of Dynamic Schedules and Pseudo Ties
- PJM Marginal Losses

Require Further Analysis

- Production Cost Study
- Common Time Zones PJM Move to EST (Decision not to proceed with initiative)
- Market Flow Threshold Assessment (Decision to move forward with 12-month field test)
- Super Regional Reserve Sharing (Decision not to proceed with this initiative)
- Investigation of Loop Flow Across the Combined Footprint
- Outage Coordination
- Alternative Border Pricing Point Calculation (Decision not to proceed based on Midwest ISO and PJM analysis of proxy bus prices)



