

# ***Loop Flow Study Phase II Joint and Common Market Initiative***



**Joint Stakeholder Meeting  
February 1, 2008**



# Loop Flow Study Benefits

- Enhanced Situational Awareness - Will provide Reliability Coordinators with real-time information on the sources of loop flow over a wider area.
- Enhanced Reliability - Will enable a more reliable approach to managing transmission congestion than is possible with the current TLR approach.
- Enhanced Economics – Will not only ensure a solution to resolve congestion is always achieved but will also ensure that the most economical solution is also achieved.

# Loop Flow Study Phase I – Follow-up

## ➤ Phase I Study Follow-Up

- Additional written comments were received from IESO on January 2, 2008. These comments have been posted on the JCM Website at <http://www.jointandcommon.com/documents/documents.html> under the heading Loop Flow Report Comments and Dissenting Opinions.
- No comments have been received from NYISO and TVA on the Phase I Report.
- Met with FERC staff on September 5, 2007, to provide them an overview of the Loop Flow Study Phase I report.
- Develop appropriate action items based on recommendations from the Loop Flow Phase I Study report. These action items will be tracked and progress will be reported to the JCM Stakeholders. No additional action items have been identified at this time.

# Phase I Recommendations

## ➤ Recommendation

- Commissioning of the Michigan-Ontario PARs as soon as possible to mitigate the loop flows around Lake Erie.
  - PJM/NYISO and NYISO/IESO commit to review NY/PJM and St. Lawrence PAR operations to assess contributions to Lake Erie Loop Flow.
  - The four parties will develop a comprehensive plan on the operation of the Michigan-Ontario and NYISO/PJM PARS to control loop flows around Lake Erie.

## ➤ Status

- Facilities Agreement has been signed by transmission owners.
- Midwest ISO and IESO are developing Standard Operating Procedures for the PARs.
- Target is to have PARS Operational by June 1, 2008.

# Phase I Recommendations (continued)

## ➤ Recommendation

- IESO and NYISO should adopt a Congestion Management Process whereby they report their market flows to the IDC and participate with Midwest ISO and PJM to manage circulation flows around Lake Erie when congestion occurs.

## ➤ Status

- IESO has stated they want to have the Michigan Ontario PARs Operational to determine if that will resolve loop flow on the interface before any further consideration of implementing a Congestion Management Process.
- PJM and NYISO staff have discussed the potential implementation of a market-to-market coordination process.

# Recommendations (continued)

## ➤ Recommendation

- Create an Energy Schedule Tag Archive that contains tag impacts, market flow impacts, and generation-to-load impacts for flowgates in the IDC.

## ➤ Status

- RTOs submitted whitepaper to NAESEB which discusses this recommendation which has been included as a supporting documentation for line item in NAESEB's 2008 Wholesale Electric Quadrant's Annual Plan.
- A request to the IDC Working Group for additional tag information is currently under development.

# Loop Flow Study Phase II Summary

- The purpose of the Phase II Study is to develop mechanism to identify and a deeper understanding of loop flows on key flowgates as a result of:
  - Transmission Tags
  - Market Flows
  - Generation-to-Load Flows
- Flowgates included have a history of:
  - Significant Transmission Congestion
  - Significant Market-to-Market flows
  - High number and/or duration of TLR implementation
- Midwest ISO and PJM are performing the study in coordination with other Reliability Coordinators and Transmission Owners impacted by loop flows.
  - Study efforts are currently on track for completion and presentation in June
- Develop additional mitigation strategies to better manage loop flows in real-time operations.
  - Develop the ability to predict loop flows based on system conditions

# Loop Flow Study Phase II

## Milestone Summary

C	Define Scope
C	Finalize Scope
C	Develop Flowgate Analysis Approach
G	Conduct Analysis
G	Quantify Contributors
G	Identify Mitigating Actions
G	Finalize Report
G	Present Findings to Stakeholders
G	Overall Status

## JCM Lead

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

## Legend

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

## KEY ACCOMPLISHMENTS

- Midwest ISO and PJM identified list of 35 flowgates to be included in study.
- Reviewing use of internal EMS model for loop flow study.
- Investigating the use of PROBE Software to conduct this analysis.
- Identifying time frames to conduct analysis.

## UPCOMING ACTIVITIES

- Review data access requirements to obtain tag data, NNL data, and market flows.

## ISSUES & CONCERNS

- None at this time.