



Joint and Common Market

# **MODELING OF ONT-ITC PARS IN MARKET FLOW CALCULATIONS AND ENTITLEMENT CALCULATIONS**



# Overview

- Purpose
  - Provide a status update on MISO and PJM efforts to model ONT-ITC PARs in Market-to-Market (M2M)
- Key Takeaways
  - MISO and PJM agreed on the method to model the ONT-ITC PARs in the M2M process
  - RTOs finalized the Joint Market Flow, Firm Flow Entitlement, and Data Exchange requirements document
  - RTOs completed the JOA tariff filing to codify the PAR changes in the ICP
  - RTOs final efforts to model the PARs in M2M are underway, planned implementation date is June 22, 2016

# Background

- ONT-MI PARs (5 PARs on 4 lines) began completely regulating ONT-MI interface flow in July 2012
  - Since July 2012, ONT-MI PARs have been modeled using the “Regulated” and “Unregulated” status in the Interchange Distribution Calculator (IDC)
- MISO, PJM and IESO have completed an analysis of the operation of the ONT-MI PARs through the first year of operation (Aug 2012 – Aug 2013)
  - Report available at: <http://www.miso-pjm.com/~media/pjm-jointcommon/downloads/ontario-michigan-interface-par-performance-evaluation-report.ashx>
- At 11/10/2014 JCM, PJM and MISO presented a solution to model PARs in M2M:
  - When the PARs are regulating, Firm Flow Entitlements (FFE) will be calculated assuming “fixed flow” PAR modeling
  - When the PARs are regulating, Market Flows will be calculated assuming “fixed flow” PAR modeling along with Lake Erie Circulation (LEC) above 200MW Market Flow adjustment
    - When LEC (absolute value) <200 MW, no LEC adjustment is required
    - When LEC (Absolute value) >200 MW, LEC adjustment is required

# Progress to date

- RTOs **completed** the joint requirements and documentation for:
  - Market Flow Calculator
  - FFE Calculation
  - Data Exchange
- RTOs **completed** the JOA tariff filing
  - RTOs added Section 10 to the Interregional Coordination Process (ICP)- Attachment 3 of the JOA to codify the PAR changes
  - Submitted a filing to FERC on April 22, 2016 with a effective date of June 22, 2016
- RTOs are **finalizing** the development and testing
  - Internal IT development is complete
  - Joint user acceptance testing of vendor's software changes
  - Ongoing joint testing and QA of each others systems

# RTOs tentative work plan

<u>Category</u>	<u>Task</u>	<u>Status</u>	<u>Target Completion</u>
Design Document	Develop Market Flow Requirements and Use Case (Design Document)	Completed	Done
Design Document	Develop FFE Requirements and Use Case (Design Document)	Completed	Done
Design Document	Develop Data Exchange Requirements (Design Document)	Completed	Done
Engine	Develop Market Flow Engine Enhancements	Completed	Done
Engine	Develop Data Exchange Enhancements	Completed	Done
Engine	Develop FFE Engine Enhancements (Vendor)	Ongoing	May 2016
Engine	Test Enhancements	Ongoing	May/June 2016
JOA/JCM	Develop JOA Enhancements	Completed	Done
JOA/JCM	File JOA Changes / Implement Change Management Process	Completed	Done
JOA/JCM	Provide JCM updates	Ongoing	2016
	<b>Go Live</b>	<b>Outstanding</b>	<b>June 22, 2016</b>

# Next Steps

- Continue joint functional testing in staging environment
- Deploy to production on June 22, 2016
- RTOs will provide post go-live updates to stakeholders during the upcoming JCM sessions

# Questions

Contact Information:

Brian Kiefer - MISO

[bkiefer@misoenergy.org](mailto:bkiefer@misoenergy.org)

Danielle Croop – PJM

[danielle.croop@pjm.com](mailto:danielle.croop@pjm.com)