

# MISO – PJM Joint and Common Market Cross Border Transmission Planning

November 15, 2016

- TMEP JOA Language
- TMEP Study Results
- FERC Order No. 1000 Interregional Compliance
- FERC EL13-88 Filings
  - Summary of filed materials
  - Coordination of Generation Retirement Studies

# Targeted Market Efficiency Project (TMEP) JOA Language

- TMEP study process, benefits, and interregional cost allocation defined
  - Corresponding JOA edits ready to file
- Still working on regional cost allocation
  - In MISO: RECB Working Group
    - MISO working on detail of proposal
    - Will hold a November 17 RECBWG meeting to lay out proposal
  - In PJM: PJM TOAAC
    - Must give 30 day notice of proposed cost allocation

- RTO legal staff prefers filing JOA and Tariff revisions together
  - Intend to file by end of year independent of cost allocation status
  - Request 60 day response from FERC
  - Pending FERC response, submit projects to Boards at first opportunity

# Targeted Market Efficiency Project Study

- Facility specific information will be reviewed to ensure appropriate treatment of any CEII or confidential information
  - Upgrade details will be shared when RTOs are ready to submit projects to Boards for approval
- Planning level cost estimates provided by Transmission Owners
- RTOs have completed independent verifications of upgrade effectiveness
- RTOs consider analysis complete and recommendations final
  - Waiting on language approval before submitting to Boards

- 50 M2M flowgates investigated
- 13 potential upgrades evaluated
- 6 project recommended
  - \$64 million in historical congestion (2014 + 2015)
  - \$111.6 million estimated TMEP benefit
  - \$17.25 million estimated TMEP cost
  - 6.5 average benefit/cost ratio



Facility	Transmission Owner(s)	TMEP Cost (Million \$)	TMEP Benefit (Million \$)	Benefit Allocation (%PJM/%MISO)
Burnham - Munster 345kV	CE - NIPS	7	32	88/12
Bayshore - Monroe 345kV	ATSI - ITC	1	17	89/11
Michigan City – Bosserman 138kV	NIPS - AEP	4.6	29.6	90/10
Reynolds-Magnetation 138kV	NIPS	0.15	14.5	41/59
Roxana - Praxair 138kV	NIPS	4.5	6.5	24/76
Marysville-Tangy 345kV	AEP/ATSI	"minimal"	12	98/2

# FERC Order No. 1000 Interregional Compliance

- FERC issued Order on Rehearing and Compliance Filings on October 28, 2016
  - Rehearing requests denied
    - MISO TOs: Approved projects should not be displaced
    - PJM: Interregional Public Policy Projects should not displace regional economic and reliability projects
    - MISO TOs and PJM TOs: Cross-Border Baseline Reliability Projects (CBBRPs) should not be added back to the JOA in addition to Interregional Reliability Projects (IRPs)

- FERC issued Order on Rehearing and Compliance Filings on October 28, 2016
  - Third Compliance Filing conditionally accepted subject to additional filings within 30 days
    - RTOs must submit revisions to the JOA to make clear when CBBRP and IRP cost allocation methods will apply
    - RTOs must revise JOA sections 9.4.3.1.2-4 to state that:
      - Reliability projects in the MISO regional process include Multi-Value Projects (MVPs) that meet Criterion 3 of MISO's Tariff
      - Economic projects in MISO's regional process include MVPs that meet Criterion 2 or 3 of MISO's Tariff
      - Public policy projects in MISO's regional process include MVPs that meet Criterion 1 of MISO's Tariff

# FERC Order EL13-88 ('NIPSCO')

- Filed August 19 (see August 26 IPSAC materials):
  - Informational report
    - ¶58: Coordination of MTEP, RTEP, and JOA planning processes
  - Status report
    - ¶186: Status on generation retirement coordination language
- Filed October 18 and 25 (see October 28 IPSAC materials):
  - Informational report (Oct 25)
    - ¶92: Use of a joint model with the same assumptions and criteria in the RTOs' regional planning processes
  - Status report (Oct 18)
    - ¶186: Status on generation retirement coordination language



## FERC Directed Stakeholder Involvement

Deliverable		Due Dates (2016)				Stakeholder Forum
		20-Jun	19-Aug	18-Oct	15-Dec	
Directive P186	Include Generator Retirement Coordination Procedures in JOA	X	X	X	X	IPSAC, PSC, PC
Informational P186	Status Reports on Gen Retirement Coordination Language					
Informational P92	Joint Model in Regional Processes			X		IPSAC, PSC, PC

## No FERC Directed Stakeholder Involvement

Deliverable		Due Dates (2016)		Stakeholder Forum (Informational Updates)
		20-Jun	19-Aug	
Directive P57	Formalize Steps and Deadlines in CSP Study	X		IPSAC, PAC, TEAC
Directive P131	Lower Interregional MEP Thresholds	X		IPSAC, RECB, TEAC
Directive P132	Remove Interregional B/C Ratio	X		IPSAC, RECB, TEAC
Directive P133	Revise Benefit Calculation of Interregional MEPs	X		IPSAC, RECB, TEAC
Directive P185	Include BPM GI Coordination Procedures in JOA	X		IPSAC, PSC, TEAC
Informational P58	Aligning Interregional, MTEP, and RTEP		X	IPSAC



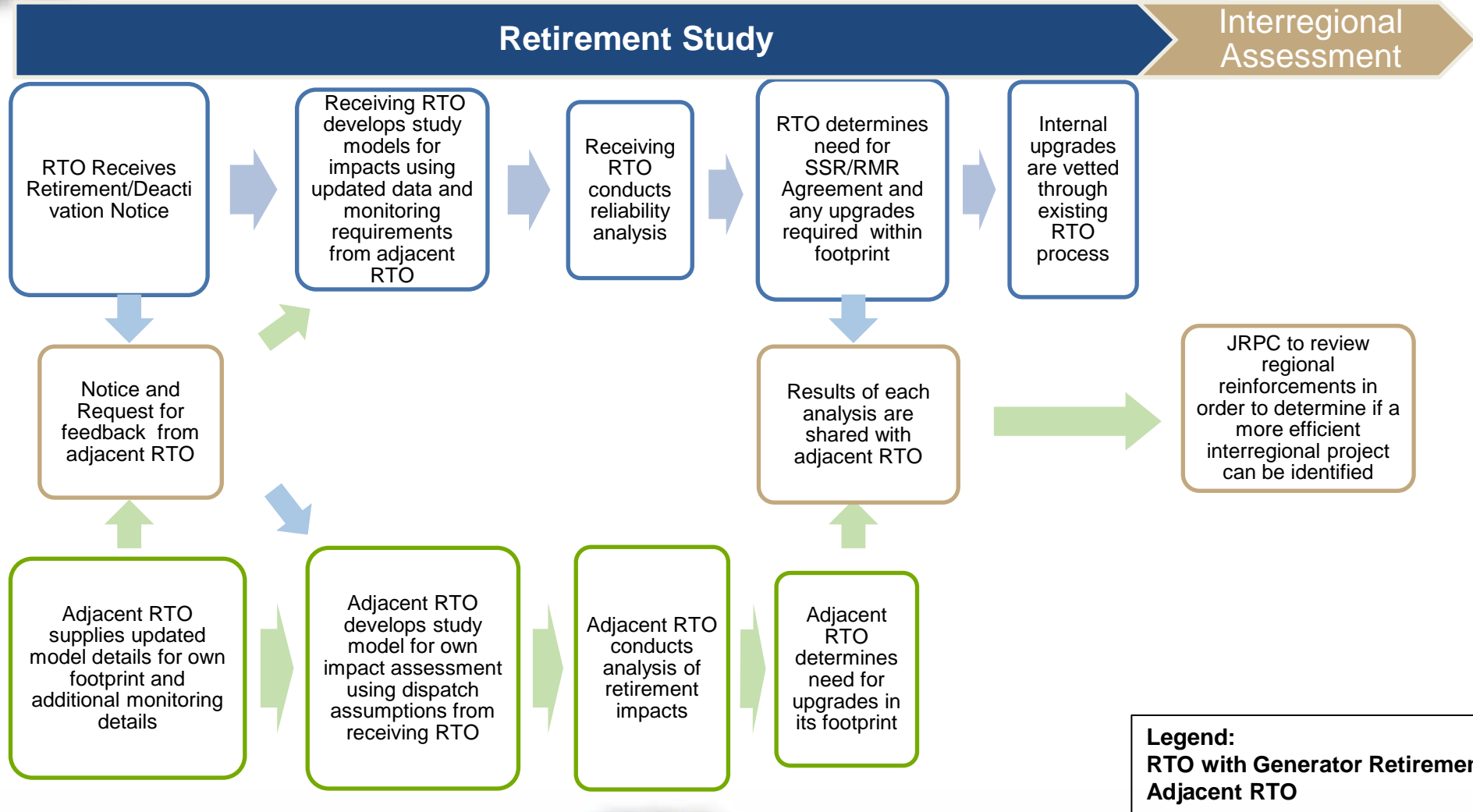
# Coordination of Generator Retirement Studies

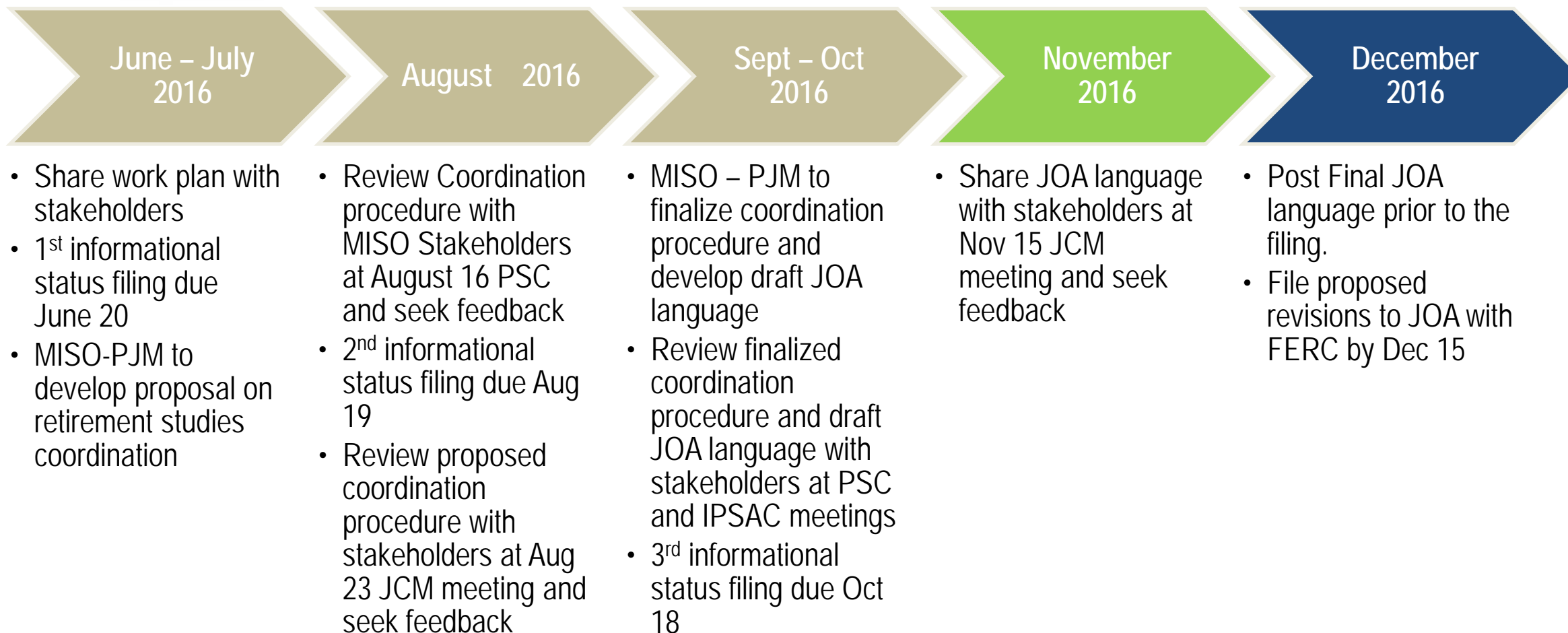


- MISO and PJM generator retirement processes are governed by distinct Tariff requirements
- Each RTO conducts assessment based on its own methodology
  - Methodology and criteria to keep generator available for reliability
  - Notification requirement
  - Timeline requirement
  - Confidentiality requirement
- Differences in Tariff requirements may present priority challenges to complete affected system study as per the timeline requirement in adjacent RTO

- MISO and PJM drafted new sections in the JOA with language related to coordination of generator retirements
- New provisions reflect the differences between the regional processes for generator retirement in two RTOs
- New language defines information sharing and study requirements
  - Exchange of power flow model data and coordination of assumptions
  - Clarification of responsibilities of each party in determining the need for the generator under study
  - Clarification of responsibilities of each party to address network upgrades caused by the retirement of a generator in other party's system

- New language includes the consideration of projects required for generator retirements/deactivations in other region within the interregional assessment process
  - Each Party will screen issues caused by retirement in other region and identify needed projects within 65 days of receiving notification
  - JRPC will review project for consideration as an Interregional Project
  - JRPC will refer project to IPSAC for informational review





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