

# Manual 11 Revisions – Interface Pricing Points Review

Zhenyu Fan  
Real-Time Market Operations

Market & Reliability Committee  
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| Action Required  | Deadline   | Who May Be Affected  |
|--|--|--|
| Review Manual 11 Updates   | 03/20/2024   | All stakeholders   |
|  |  |  |

- OA Schedule 1, Sec 2.6A outlines the definitions and revision practices for Interface Pricing Points.
- The MMU has recommended that PJM monitor, and adjust as necessary, the weights applied to the components of the interfaces to ensure that the interface prices reflect ongoing changes in system conditions.
- In response, PJM is pursuing a quick fix process to memorialize in Manual 11 a formal annual process to review Interface Pricing Points.

References:

[PJM's OATT](#)

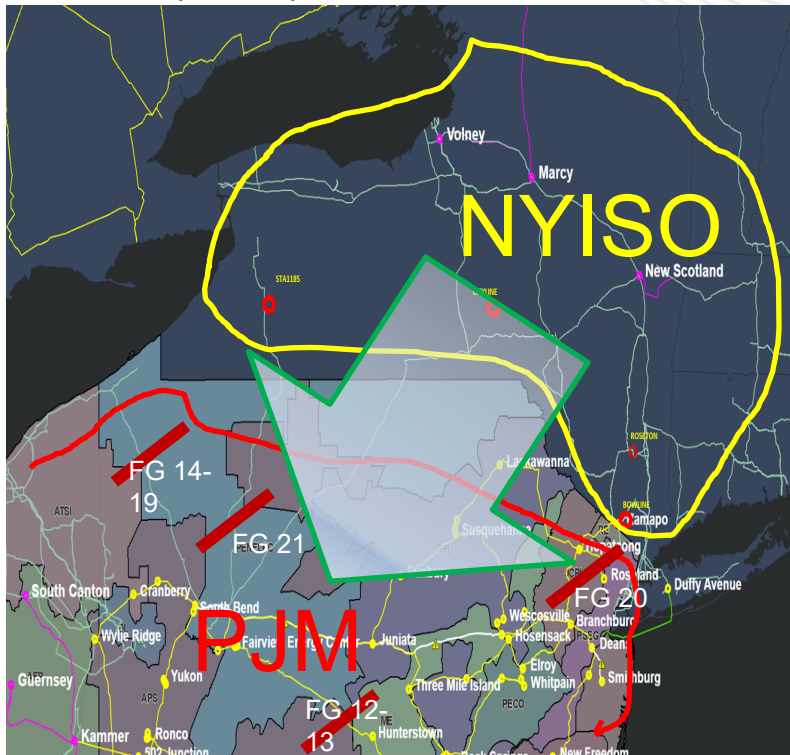
[Market Monitor's SOM Report](#)



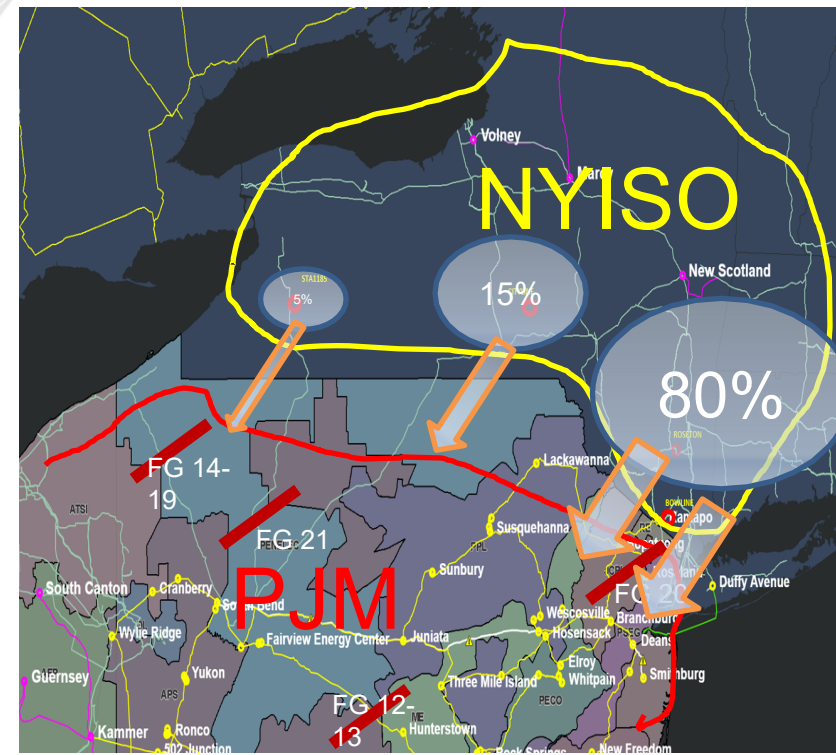
# Interface Definition

| Interface    | PnodeName               | PnodeID    | Weight |
|--------------|-------------------------|------------|--------|
| <b>MISO</b>  | 16 WAUKE138 KV MISOM2M0 | 2156109758 | 0.1    |
|              | 18 WILL 20 KV MISOM2M1  | 2156109759 | 0.1    |
|              | 3 POWERT24 KV MISOM2M2  | 2156109760 | 0.1    |
|              | SCHAHFER345 KV MISOM2M5 | 2156109807 | 0.1    |
|              | CAYUGA2 345 KV MISOM2M3 | 2156109778 | 0.1    |
|              | EBEND 20 KV MISOM2M9    | 2156109777 | 0.1    |
|              | MICHIGA2345 KV MISOM2M4 | 2156109779 | 0.1    |
|              | SCHAHFER345 KV MISOM2M5 | 2156109781 | 0.1    |
|              | ROCKPOR226 KV MISOM2M7  | 2156109763 | 0.1    |
|              | SCHAHFER345 KV MISOM2M5 | 2156109780 | 0.1    |
| <b>NYIS</b>  | BOWLINE 20 KV GEN 1     | 51088      | 0.45   |
|              | CTYLINE 115 KV GEN1     | 135389875  | 0.15   |
|              | STA1185 115 KV ALLGEN1  | 135389955  | 0.05   |
|              | ROSETON 345 KV GEN 1    | 51096      | 0.35   |
| <b>SOUTH</b> | BROWN CT138 KV EBROWN10 | 1123180777 | 0.0103 |
|              | BULLRU 161 KV PRICEPT1  | 1084393457 | 0.1403 |
|              | GHENT_LG22 KV GHENT02   | 1123180796 | 0.0576 |
|              | GREENTO2138 KV DUMYGEN1 | 1268572878 | 0.15   |
|              | LEECPL 115 KV PRICEPT1  | 1084393140 | 0.0338 |
|              | MCGUIRE4230 KV PRICEPT1 | 1084393278 | 0.0537 |
|              | NOBLESVI230 KV PRICEPT1 | 1084392083 | 0.0069 |
|              | ROXBOROG230 KV PRICEPT1 | 1084393156 | 0.05   |
|              | WAKE4 500 KV PRICEPT1   | 1084393165 | 0.17   |
|              | WALTON 3230 KV GENDUMMY | 57967673   | 0.2    |
|              | WHEATLND345 KV PRICEPT1 | 1084392109 | 0.1274 |

## Area to Area Transfer Distribution Factor (AtoA)



## Interface to Area Transfer Distribution Factor (ItoA)



Purpose: To review if the existing definition represents external area in terms of power flow impacts on the ties lines between the areas

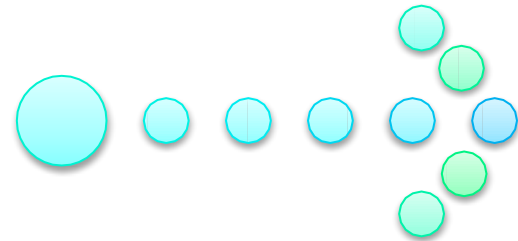
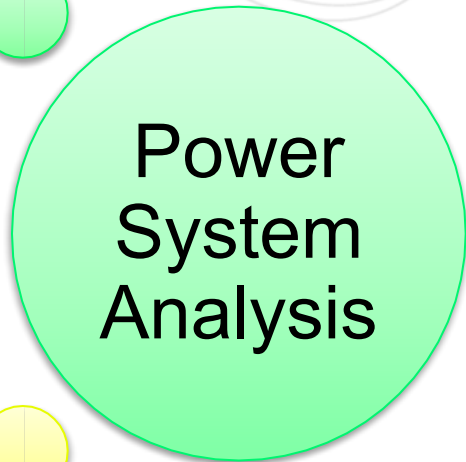
## 1. Base Power Flow Case



## 2. Sub Systems



## 3. Monitor/FlowGates



- **Dfax Analysis**
- **Sensitivity Study**
- **Trending Study (future)**
- **Scenarios based Study (future)**

- The current interface definitions (pricing points and their weights) are reasonable.
- Sensitivity study confirmed similar results.
- Distribution factor comparison for sub regional and flowgates were also screened.

| FGate ID | FGate Name | Contingency | TDF (Area→PJM)<br><b>AtoA</b> | TDF (IntF→PJM)<br><b>ItoA</b> | Perctage Diff | ABS Diff |
|----------|------------|-------------|-------------------------------|-------------------------------|---------------|----------|
| 1        | PJM-NYISO  | Base Case   | -1                            | -1                            | 0.0%          | 0        |
| 2        | PJM-MISO   | Base Case   | -0.7997                       | -0.8454                       | 5.71%         | 0.0457   |
| 3        | PJM-SOUTH  | Base Case   | -0.7595                       | -0.7860                       | 3.49%         | 0.0265   |

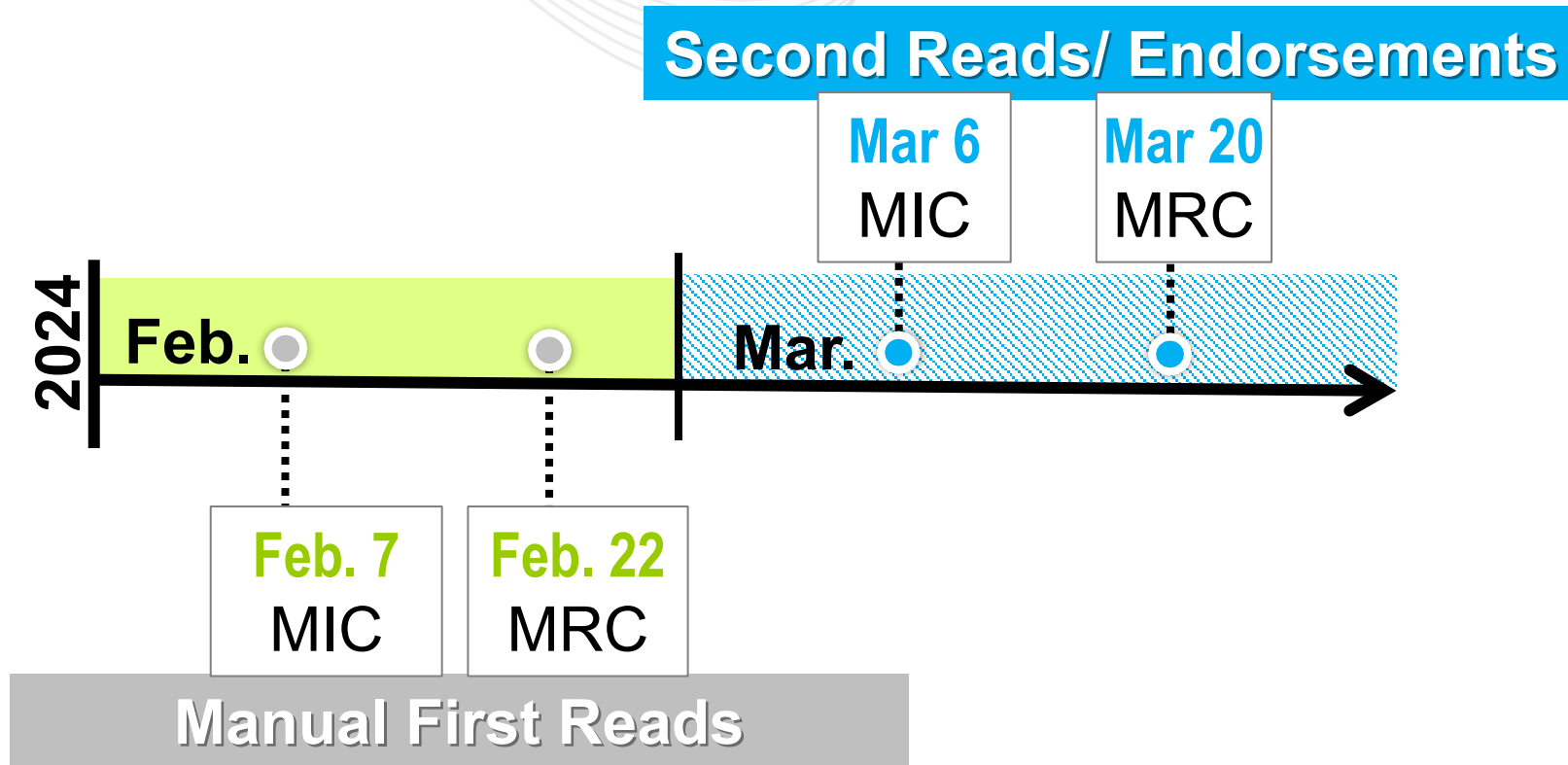
- New Section 2.20 – Interface Prices
  - Definition, Scope(NYIS, MISO and SOUTH), Timeline
  - Study Methodology
  - Transparent informational sharing



## 2.20 Interface Prices

Interface Pricing Points are a grouping of individual busses combined into a proxy-pricing node (pnode) utilized for purposes of calculating LMPs for energy exports to or energy imports from external balancing authority areas. Such Interface Pricing Points may represent external balancing authority areas, aggregates of external balancing authority areas, or portions of any external balancing authority area.

A review of Interface Pricing Point definitions for purposes of calculating LMPs for energy exports to or energy imports from external balancing authority areas is conducted on an annual basis. The review is based on a set of flow impact analyses utilizing power flow analysis tools for each Interface Pricing Point. The scope of the annual review of Interface Pricing Points includes the MISO, NYIS and SOUTH interfaces. Results of the annual review will be posted to the PJM website no later than February 28 of each calendar year.



Facilitator:

Lisa Drauschak, [Lisa.Drauschak@pjm.com](mailto:Lisa.Drauschak@pjm.com)

Secretary:

Dave Anders, [Davis.Anders@pjm.com](mailto:Davis.Anders@pjm.com)

SME/Presenter:

Zhenyu Fan, [Zhenyu.Fan@pjm.com](mailto:Zhenyu.Fan@pjm.com)

## **Quick Fix Manual 11 – Interface Pricing Points Review**



### **Member Hotline**

(610) 666 – 8980

(866) 400 – 8980

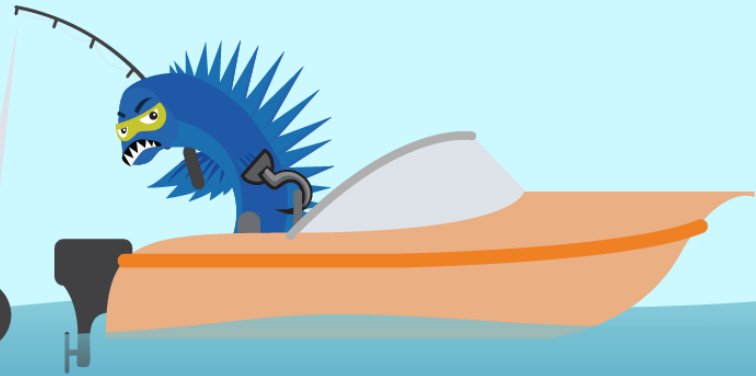
[custsvc@pjm.com](mailto:custsvc@pjm.com)

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YOU CLICK!**



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Call (610) 666-2244 or email [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)**