

Interface Pricing Updates

Phil D'Antonio

Real-Time Market Operations

May 13, 2020

Market Implementation Committee

MISO Interface Updates

- PJM is transitioning the definition of the existing MISO interface pricing point such that its constituent pnodes are modeled at non-injection, non-withdrawal nodes rather than generator buses.
 - No change in station or electrical location
 - Improves maintainability of the interface definition

Station Name	Voltage
16 WAUKE	138 KV
18 WILL	20 KV
3 POWERT	24 KV
BVR CH 6	20 KV
CAYUGA2	345 KV
EBEND	20 KV
MICHIGA2	345 KV
MONROE	26 KV
ROCKPOR2	26 KV
SCHAHFER	345 KV

- Aggregate is composed of 10 pnodes on 10 buses
- 5 PJM footprint generators, 5 MISO footprint
- **All nodes located on generator buses**
- Equal weighting given to each in creating aggregate interface LMP

- Modeling of pnodes on generator buses requires maintenance
 - Confirm consistent telemetry
 - Update and change with generator retirements
 - Questions of external generator visibility
- Non-Injection/Non-Withdrawal nodes reduce maintenance
 - Seamless when units retire
 - No telemetry requirement
- Alignment with MISO definition of PJM
 - MISO transitioned their PJM Interface Definition to non-injection, non-withdrawal nodes in 2018

Station Name	Voltage
16 WAUKE	138 KV
18 WILL	20 KV
3 POWERT	24 KV
BVR CH 6	20 KV
CAYUGA2	345 KV
EBEND	20 KV
MICHIGA2	345 KV
MONROE	26 KV
ROCKPOR2	26 KV
SCHAHFER	345 KV

- Same 10 stations at the same voltage levels
- Nodes will be modeled on **new non-injection, non-withdrawal buses** at each station
- Equal weights will be maintained

- Ensure prices under new modeling approach do not differ
- Existing and proposed definitions were both monitored internally to confirm no divergence in price
 - 3+ months, over two seasons, testing has confirmed no divergence
- Therefore, no pricing change under this shift

Goal:

- Update MISO Definition in alignment with the Summer Model Build scheduled for May 27, 2020

NIPSCO Interface Updates

- PJM has reviewed the NIPSCO interface
- It has been determined, based on this review, that the NIPSCO interface is no longer needed
 - No activity on this interface
- As a result, PJM will retire the NIPSCO interface effective June 1, 2020

Duke / CPL-E Interface Updates

- The PJM / DEP Dynamic Schedule was retired in July 2019
- PJM has been reviewing the Duke / CPL-E interfaces since the retirement
- Analysis has shown that the South Interfaces are sufficient for pricing
 - Very little pricing differences between the South Interfaces and the Duke / CPL-E interfaces

- Based on this review, PJM has determined that the Duke / CPL-E Interfaces can be retired
- The interfaces are schedule for retirement on June 1, 2020

If there are any questions, please contact:

- Phil D'Antonio, Philip.Dantonio@pjm.com