Reactive Transfer Interface
Definition Changes

PJM Transmission Operations
April 2018
Interface Definition Changes

- Eastern Reactive Transfer Interface
- Cleveland Reactive Transfer Interface
Eastern Reactive Interface Definition (addition highlighted in red)

1) 5058 Breinigsville-Alburtis 500 No. 2 kV line
2) 5009 Juniata-Alburtis 500 kV line
3) 5066 Lauschtown-Hosensack 500 kV line
4) 5010 Peach Bottom-Limerick 500 kV line
5) 5025 Rock Springs-Keeney 500 kV line
6) 5063 Lackawanna-Hopatcong 500 kV line
7) 5059 Breinigsville-Alburtis No. 1 500 kV line
• PJM will revise the interface definition due to a new Breinigsville-Alburtis 500 kV line
  — Expected to be in-service by Spring 2019.
• Definition will be appended to include second Breinigsville-Alburtis 500 kV line
• New definition will be made effective on June 1, 2018.
Cleveland Reactive Transfer Definition Changes

• PJM will be revising the interface definition due to
  — Transmission upgrades on the 345 kV system have increased import capability
  — Generation retirements led to limited number of units within the interface

• Expand interface area to include other generators that provide voltage support in and around Cleveland
  — Cleveland area units still provide most support but are also limited in number
  — Distribution factors will reflect relative impact
  — PJM studies indicates nearby generators provide voltage support around Cleveland

• Manage source of historical transfer flows (west-to-east)
Expand further south and west

Compose of (new definition):

1) Hanna-Chamberlin 345 kV *
2) Hanna-Juniper 345 kV
3) Star-Juniper 345 kV
4) Star-N. Medina 345 kV *
5) Mansfield-Glen Willow 345 kV
6) Monroe-Lallendorf 345 kV *
7) Erie West-Ashtabula 345 kV

* indicates new facility to definition
Cleveland Reactive Transfer Definition Changes

Current definition is shown in green (138 kV not shown)

New definition is shown in red
Cleveland Reactive Transfer Definition Changes

• New definition will be made effective on June 1, 2018

Impact
• Minimal operational impact
• More controlling options

• Manual Change
• Manual 3 will be published with new definition
• Interface will remain as an IROL in Manual 37