General Updates

Gautam Punjabi
March 21, 2017
• 3/3/2017
  – Members unable to access RPM access due to database issue. Alert threshold set to alert sooner.
• 3/13/2017
  – Data Viewer access issues. Guest access available as workaround. Procedure updated.
• 3/17/2017
  – 30 minute unexpected outage to Tools and PJM.com. Device replacement planned.
• 3/19/2017
  – Intermittent access issues and slowness to PJM Tools. Device replacement planned.
• 3/20/2017
  – Intermittent access issues to PJM Tools (OASIS, MSRS, eCredit, eRPM, eLRS). Related to 3/19/2017 event.
FTR Auction Update for March, 2017

Asanga Perera
Manager, Market Simulation
March 21, 2017
Overview

• PJM Tariff requires PJM to post FTR monthly auction results within 5 business days after the close of FTR bid and offer period
  – Unless circumstances beyond PJM’s control prevent PJM from meeting this objective

• PJM was unable to post March FTR results within 5 days
  – PJM notified stakeholders

• PJM was able to post the solution on March 1, 2017
  – Although solution was late, paths were awarded for the full periods
Why the delay?

• There have been two late postings in the recent past
  – They were March 2016 and 2017
  – These delays are rare

• PJM found 2 contributing factors impeding PJM’s goal to post results generated from an optimized FTR solution

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<tr>
<th>Reason</th>
<th>Impact</th>
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<tbody>
<tr>
<td>Primary - Overlapping Periods</td>
<td>High</td>
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<tr>
<td>Other - Bid Volume, Outages</td>
<td>Medium</td>
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<tr>
<td>Month</td>
<td>Overlapping Periods</td>
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<tr>
<td>June</td>
<td>Jun, Jul, Aug, Q1</td>
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<td>July</td>
<td>Sep, Q2</td>
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<td>August</td>
<td>Sep, Oct, Q2</td>
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<td>September</td>
<td>Sep, Oct, Nov, Q2</td>
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<td>October</td>
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<td>May</td>
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Historical FTR Solution Performance Statistics
• PJM is open to stakeholder feedback
  – This is the second time we encountered this challenge
  – This may impact other processes such as timely approval of residual ARR, as well

• PJM will discuss existing challenges impeding timely FTR result postings at the April MIC
  – Process flow
  – Performance data
  – Options to consider
Networks Update

John Ippolito
Manager, Network Infrastructure
March 21, 2017
Recent Network Issues

Outage Time

• March 19 at 16:12 through March 20 at 03:00

Applications Impacted

• Markets Gateway, eFTR, eRPM, Data Viewer, ExSchedules, OASIS, pjm.com, eDART, and M2M

Issue Overview

Focus Areas

• Firewalls
• Switches

• Load Balancers
• Restoration steps
DMZ Firewall Upgrade

What
• Upgrade member-facing network firewalls at PJM’s Valley Forge site

When
• Tentative date - Thursday, March 30
  Final date to be communicated Thursday, March 23 via the Technical Notifications email distribution list
• Outage window - 7 hours; starting 18:00 – 01:00
• Date expedited due to recent production issues

Impacts
• Intermittent impacts to Markets Gateway, eDataFeed, eFTR, eRPM, Data Viewer, ExSchedules, PJM.com, eDART, M2M, email
Timeline

Firewall Upgrade Schedule

March Upgrades

• Valley Forge Internal – Completed
• Milford Member-facing 1 – Completed
• Valley Forge Member-facing 1 – March 30

April Upgrades

• Milford Member-facing 2 – April 6
• Valley Forge Member-facing 2 – April 13
• Milford Internal – April 20
Survey Results
Understand Purpose

- Understand: 95%
- Don't Understand: 5%

Receive Needed Information

- Agree: 79%
- Neutral: 21%

PJM Acts on Feedback

- Agree: 74%
- Neutral: 26%

Overall Satisfaction

- Agree: 81%
- Neutral: 19%
Prefer 2-day Format

- Disagree: 31%
- Neutral: 47%
- Agree: 22%

Disagree  Neutral  Agree
• Consolidate two-day agenda to one day
• Identify better meeting timing. For example:
  – 10:30am start?
  – All in the PM?
• Links to Technical Content
• Quick Links to Knowledge Articles
• Moderated Discussion Forums
  • Initiatives – 5-minute Settlement, Intraday Offers, MISO CTS
  • Core Business Areas
    • Markets
    • Operations
    • Planning
  • Technical (APIs, Authentication, etc.)

Coming in April!
Communication Reminder

Risa Holland
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