Christopher McIntosh
Lead Market Simulation Coordinator

Spring 2013 Release
May 9th, 2013
Agenda

- Market Simulation Initiatives and Timelines
- MAP Stage Availability
- FERC 755 - Pay for Performance (PFP) Regulation Initiative
- Mandatory Multi-Stage Generation (MSG)
- Resource Adequacy Availability Management (RAAM) API Change
- Next Steps
- Reference Slides
Spring 2013 Release Market Simulation Initiatives and Timelines

**FERC 755 - Pay for Performance (PFP) Regulation** – Structured Scenario to be run May 16th 09:00 – 18:00

**Mandatory Multi-Stage Generation (MSG)** – Next Sim June 17th – 21st, 2013

**RAAM API Change** – Active in MAP Stage, target Production Deployment May 15th, 2013
MAP Stage Availability

MAP Stage Spring Release Daily Maintenance Window - 16:00 - 20:00 PPT

MAP Stage Weekly Maintenance Window - Thursday’s, 09:00 – 20:00 PPT

MAP Stage Outage – SLIC opened 5/9 @ 10:00, ahead of schedule.

<table>
<thead>
<tr>
<th>Application</th>
<th>Outage Date</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Applications in MAP Stage</td>
<td>Wednesday, May 8, 2013, 9:00 a.m.</td>
<td>Friday, May 10, 9:00 a.m.</td>
</tr>
</tbody>
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FERC 755 - Pay for Performance (PFP) Regulation Simulation Timeline

The FERC 755 - Pay for Performance (PFP) Regulation Simulation timeline –

- FERC 755 - (PFP) Structured Scenario Execution Dates: TD 5/16
- FERC 755 - (PFP) Unstructured Scenario Execution Dates: N/A
- FERC 755 - (PFP) Settlements: To be published 5/21 for TD 5/16

Please send your request to MakretSim@caiso.com for the following –
One regulation resource per SC for the upcoming 05/16 market simulation, ISO will guarantee the regulation capacity and mileage to be awarded from the markets.

FERC 755 - Pay for Performance (PFP) Regulation Market Simulation Structured Scenario -
Market Simulation and Go-Live Activities

June 1, 2013 Activation Activities
FERC Order 755 Compliance – pay for performance regulation

<table>
<thead>
<tr>
<th>Pre-Activation Activities</th>
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</thead>
<tbody>
<tr>
<td>ISO will provide data for end-to-end validation of 4/18 trade date</td>
</tr>
<tr>
<td>ISO validates following calculation changes</td>
</tr>
<tr>
<td>1. Refine the threshold to detect the “Non AGC” 4-second interval (BRQ017)</td>
</tr>
<tr>
<td>2. Correct the adjusted mileage formula to move the equal zero condition from formula A and include in other formulas (BRQ024, BRQ025)</td>
</tr>
<tr>
<td>Completion of May 16, 2013 market simulation (with calculation changes)</td>
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<tr>
<td>ISO validation with Production 15-minute mileage Data with selected Production Regulation Resources</td>
</tr>
<tr>
<td>Production Activation</td>
</tr>
<tr>
<td>June 1, 2013</td>
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</tbody>
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# FERC 755 Pay for Performance Regulation Structured Scenario 5/16

## Trade Date
- May 16, 2013

## Data Posted
- May 17, 2013

1. 4 second AGC file: Set point, Telemetry, SOC, 4-second DOP
2. EMS 15-minute mileage data including the zero capacity correction from MQS: RUM, RDM, AUM, ADM, CU and CD

## Settlement statement
- Published May 21, 2013
## Production Data Central

### Resource Based Production 15-minute Mileage

1. Based on individual market participant on selected production resources;
2. Verify the necessary AGC Toning if needed;
3. Verify the calculation using the 15-minute mileage and AGC data;
4. Verify the latest mileage formula change using Production AGC data
5. Number of days’ data will be determined on an as-needed base

### System Level

1. Posting Production System Level Hourly Multipliers and Accuracies Starting 05/07/2013 for 05/06. Intent is to maintain daily publication on web site for prior day. For weekends, holiday or some unforeseen issues, the missing days’ data will be posted when it can.
Mandatory Multi-Stage Generation (MSG) Simulation Timeline

The Mandatory Multi-Stage Generation (MSG) Simulation timeline –

- Mandatory MSG Simulation Schedule Dates: One week a month from now until October, 1st. We will settle the third Thursday of each month in conjunction with our week long unstructured test.

- No MP’s were interested in participating in the scheduled monthly May Market Simulation.

- Next Market Simulation June 17th – 21st
Replacement Requirements for Scheduled Generator Outages

RAAM API


- Updated API Spec and XSD can be found on the Spring Release site referenced above

- An updated application programming interface (API) will be available in MAP Stage for user testing prior to production implementation (anticipated to be available after next MAP Stage outage)

- Targeted Production Deployment - May 15th, 2013
Next Steps

- The next teleconference will take place at 13:00 PPT on Monday, May 13th, 2013.
Spring 2013 Release Market Simulation Plan

- [http://www.caiso.com/Documents/Spring%202013%20release%20plans](http://www.caiso.com/Documents/Spring%202013%20release%20plans)
ISO System Access Documentation