Market Simulation Overview of the Spring Release Multi Stage Generation (MSG) Enhancements Phase 2

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Market Simulation Coordinator

2012 Spring Release
March 15th, 2012
Agenda

- MSG Enhancements Phase 2
- MAP Stage Availability
- Next Steps
- Reference Slides
MSG Enhancements Phase 2

The MSG 2 Simulation timeline –

- MSG 2 Simulation Kickoff call: 3/1
- MSG 2 Simulation Schedule Dates: 3/5 – 3/9
- MSG 2 Structured Scenario Execution Date: TD 3/6
- MSG 2 Simulation RDT Due Date: 2/15

MSG Enhancements Phase 2 Market Simulation Plan –
## Phase 2 Scenarios, Successfully Executed TD 3/6

<table>
<thead>
<tr>
<th>Scenario Number</th>
<th>Description</th>
<th>ISO Actions</th>
<th>SC Actions</th>
<th>Expected Outcome</th>
<th>Anticipated Settlement Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meter is higher than the Eligible Configuration.</td>
<td>ISO creates DAM and RTM bids for MSG resources. RTM configuration is higher than DAM. Meter will be higher than the RTM configuration.</td>
<td>Verify market results and settlement statements.</td>
<td>The SC will receive the MLC cost at the configuration based on meter.</td>
<td>CC 6620</td>
</tr>
<tr>
<td>2</td>
<td>Meter is lower than the Eligible Configuration.</td>
<td>ISO creates DAM and RTM bids for MSG resources. RTM configuration is higher than DAM. Meter will be lower than the RTM configuration.</td>
<td>Verify market results and settlement statements.</td>
<td>The SC will receive the MLC cost at the configuration based on meter.</td>
<td>CC 6620</td>
</tr>
</tbody>
</table>
## MSG Enhancements Phase 2 Settlement Calendar

<table>
<thead>
<tr>
<th>Calendar Day</th>
<th>Day</th>
<th>TD to be Settled</th>
<th>Publish MQS T+1B</th>
<th>Publish Settlement Stmt T+5B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Simulation START</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05-Mar-12</td>
<td>Monday</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06-Mar-12</td>
<td>Tuesday</td>
<td>3/6/2012</td>
<td></td>
<td></td>
</tr>
<tr>
<td>07-Mar-12</td>
<td>Wednesday</td>
<td></td>
<td>3/6/2012</td>
<td></td>
</tr>
<tr>
<td>08-Mar-12</td>
<td>Thursday</td>
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<td></td>
</tr>
<tr>
<td>09-Mar-12</td>
<td>Friday</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Market Simulation END</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-Mar-12</td>
<td>Saturday</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>11-Mar-12</td>
<td>Sunday</td>
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</tr>
<tr>
<td>12-Mar-12</td>
<td>Monday</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>13-Mar-12</td>
<td>Tuesday</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14-Mar-12</td>
<td>Wednesday</td>
<td></td>
<td>3/6/2012</td>
<td></td>
</tr>
<tr>
<td>15-Mar-12</td>
<td>Thursday</td>
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<tr>
<td>16-Mar-12</td>
<td>Friday</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Spring Release MAP Stage Availability

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

MAP Stage Weekly Maintenance Window: Thursday’s, 09:00 - 20:00
Next Steps

- The next teleconference will take place at 13:00 PPT on Thursday April 5\textsuperscript{th}, 2012, this will be the NGR-REM Market Simulation kickoff call.
Spring Release Communication Plan

• Twice-weekly Checkpoint (Status)
  – Mondays and Thursdays: Teleconference
    • Time: 13:00-15:00 PPT
    • Domestic: (800) 288-8967
      International: (612) 332-0345
      Access Code: N/A
  – Mondays and Thursdays: WebEx
    • URL: www.webmeeting.att.com
    • Meeting Number: 8665282256
    • Access Code: 9365289
ISO System Access Documentation

LMPM Phase 1 Registration Requirements
Affiliate Disclosure Form (section 4.5.1.1.12)

• Are you affiliated with any other SC in the CAISO Markets?
  – If Yes, then you need to disclose this information to the ISO, if not already done so. (optional* for Market Simulation)
  – If not, then you need to tell us that you are not Affiliated with any other SC (optional* for Market Simulation)
  – All SC_IDs associated with an SC automatically become affiliated unless the ISO is told otherwise.

• Due Date for Market Simulation?
  – For guaranteed availability by the start of Market Simulation, forms are due by COB 02/06/2012

* Submission is not mandatory unless the SC wants to test a certain scenario like Net Buyer / Net Seller Status etc.
• **What is a Resource Control Agreement?**

_An agreement that gives an entity bidding, scheduling, and/or operational control over a physical resource owned by or under contract to another entity, or otherwise directs the manner in which such a resource participates in the ISO markets._

- Submission of Resource Control Agreement is Optional for Market Simulation unless an SC would like to test a certain scenario
- _Example:_

<table>
<thead>
<tr>
<th>Resource_ID</th>
<th>From_SC (SC_ID)</th>
<th>To_SC\ (SC_ID)</th>
<th>Start_Date</th>
<th>End_Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen_ABC</td>
<td>ABCD</td>
<td>WXYZ</td>
<td>02/14/2012</td>
<td>12/31/2012</td>
</tr>
</tbody>
</table>

• **Due Date?**

– For guaranteed availability by the start of Market Simulation, forms are due by **COB 02/06/2012**
LMPM Affiliate Form FAQ’s

• If an SC has filled out an affiliate form in the past (i.e. via CRR or CB process), do they need to complete the Generation Affiliate Disclosure form for the LMPM effort?
  – Yes

• What is the difference between the Affiliate Disclosure for LMPM and the Affiliate Disclosure that is completed for CRR/CB registration?
  – This is a new requirement for SCs to complete the Affiliate Disclosure. Previously the requirement was for CRR entities and Convergence Bidding entities, that may or may not be an SC

• What should an SC do if an affiliate is not listed on the Affiliate Disclosure form?
  – Disclose the affiliate by adding the entity name to the form
LMPM Affiliate Form FAQ’s

• An SC completed an affiliate form in the past, and needs to update it. Can the ISO send what was submitted in the past, to have a starting point?
  – Yes

• If an SC is also an agent for another SC; is the ‘agent’ relationship considered an affiliation?
  – No

• An SC completed the 2012 Generation Ownership and Tolling Agreement survey in January ’12; do they need to complete the Resource Control Agreement form?
  – Yes

• If an SC completes the forms for Market Simulation, do they need to send the forms in again for production?
  – Yes – mostly likely the form will be revised for production
LMPM Phase 1 Project Documentation

The LMPM Phase 1 Enhancements Market Simulation Plan –

The LMPM Phase 1 Enhancements Market Simulation Scenarios –

The LMPM Phase 1 Enhancements Market Simulation Scenario FAQ’s

Registration Form for Affiliate Disclosure and Resource Control Agreement
http://www.caiso.com/Documents/SchedulingCoordinatorAffiliationResourceControlAgreementDisclosureForm.xls
LMPM Phase 1 Enhancement Production Schedule Registration Requirements

On 03/01, FERC Approved the ISO’s Nov 16, 2011 Tariff filing for a Trade Date 04/11 Implementation date

✓ 02/14 – Updated SC Certification BPM (PRR 538)
  – Refer to sections 5.3.15, 5.3.15.1 and 5.3.15.2. Attachment E provides examples.

• 03/05 – ISO releases Production version of the SC Affiliate form and Resource Control Agreement disclosure form. Walkthrough of the form at the end of today’s call

• 3/23 – Disclosure forms submission due date