Market Simulation Overview of the Spring Release Local Market Power Mitigation (LMPM) Phase 1 Enhancements and Reliability Demand Response Product (RDRP) Final Scenario

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2012 Spring Release
February 9th, 2012
Agenda

- LMPM Spring Release Market Simulation Planning
- RDRP End to End Scenario
- Spring Release Market Simulation Schedule
- MAP Stage Availability
- Next Steps
- Reference Slides
LMPM Phase 1 Enhancement Schedule

The LMPM Simulation timeline –

• LMPM Phase 1 Enhancements Kickoff call: 2/2
• LMPM Phase 1 Enhancements Connectivity Testing: 2/6 – 2/13
• LMPM Phase 1 Registration of Corporate Affiliation and Resource Control Agreement Submittal Due Date: 2/6
• LMPM Phase 1 List of Transmission Interfaces Submittal Due Date: 2/6
• LMPM Phase 1 Enhancements Market Simulation Dates: 2/14 – 3/2
• LMPM Structured Scenario Execution: DA 2/14 – 2/24, RT 2/27 – 3/1
• LMPM Unstructured Scenario Execution: RT 2/14 – 2/24, DA 2/27 – 3/1, DA and RT 3/2
# LMPM Phase 1 Scenario Schedule

<table>
<thead>
<tr>
<th>Trade Date</th>
<th>Scenario</th>
<th>Market Type</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/14/2012</td>
<td>1</td>
<td>DA</td>
<td>RT unstructured.</td>
</tr>
<tr>
<td>2/15/2012</td>
<td>1</td>
<td>DA</td>
<td>RT unstructured.</td>
</tr>
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<td>2/16/2012</td>
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<td>DA</td>
<td>RT unstructured.</td>
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<tr>
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<td>DA</td>
<td>RT unstructured.</td>
</tr>
<tr>
<td>2/21/2012</td>
<td>4</td>
<td>DA</td>
<td>RT unstructured.</td>
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<tr>
<td>2/22/2012</td>
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<td>DA</td>
<td>RT unstructured.</td>
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<tr>
<td>2/24/2012</td>
<td>7</td>
<td>DA</td>
<td>RT unstructured.</td>
</tr>
<tr>
<td>2/27/2012</td>
<td>2</td>
<td>RT</td>
<td>DA unstructured</td>
</tr>
<tr>
<td>2/28/2012</td>
<td>3</td>
<td>RT</td>
<td>DA unstructured</td>
</tr>
<tr>
<td>2/29/2012</td>
<td>4</td>
<td>RT</td>
<td>DA unstructured</td>
</tr>
<tr>
<td>3/1/2012</td>
<td>6</td>
<td>RT</td>
<td>DA unstructured</td>
</tr>
<tr>
<td>3/2/2012</td>
<td>unstructured</td>
<td>DA/RT</td>
<td>Can be used for failed scenarios</td>
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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.
LMPM Phase 1 Registration Requirements
Resource Control Agreement Form (Section 4.5.1.1.13)

• **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>
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<tr>
<td>Gen_ABC</td>
<td>ABCD</td>
<td>WXYZ</td>
<td>02/14/2012</td>
<td>12/31/2012</td>
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</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
RDRP End to End Structured Scenario Schedule

The RDRP Simulation timeline –

- RDRP End to End Structured Scenario Schedule Kickoff call: 2/16
- RDRP End to End Structured Scenario Schedule Dates: 2/21 – 2/29
- RDRP End to End Structured TD to be Settled: 2/24

RDRP Project Documentation can be found here –
### RDRP End to End Structured Scenario

**Scenario Number**

<table>
<thead>
<tr>
<th>RDRP Structured Scenario #3 will be executed February 21(^{st}) – February 29(^{th}) with Trade Date February 24(^{th}) being settled</th>
</tr>
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<tbody>
<tr>
<td><strong>Scenario Number</strong></td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**Description**

End to End RDRR Process

**ISO Actions**

ISO to follow the following steps in order -
1. TD -2B ISO approves resource modification on MP's behalf if applicable
2. TD -1B ISO dispatches the resources
3. TD ISO dispatches the resources
4. TD +1B ISO runs Performance in DRS system
5. TD +2B ISO publishes settlement statement

**SC Actions**

Please follow the following steps in order -
1. TD -2B MP's register their previously identified resource in DRS
2. TD -2B MP's approve their resource modifications
3. TD -1B MP's submit bids on the modified resource
4. TD MP's submit meter data to the DRS system
5. TD +2B MP's validate their settlement statement

**Expected Outcome**

DRS correctly calculates the resources’ performance.
Settlements correctly calculates the charges/credits per the resources’ performance.

**Anticipated Settlement Outcome**

Impacted Charge Codes are CC 6470 and 6475
Spring Release MAP Stage Availability

Current MAP Stage Scheduled Maintenance: 2/8 and 2/9 outage

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

MAP Stage Weekly Maintenance Window: Thursday’s, 09:00 - 20:00
2012 Spring Release Market Simulation Schedule

- LMPM Phase 1 Market Simulation: 2/14 - 3/2
- LMPM Phase 1 Kick Off Call: 2/2

- RDRP Final End to End Scenario Market Simulation: 2/21 - 2/29
- RDRP Final End to End Scenario Kick Off Call: 2/2

- MSG Enhancements Phase 2 Market Simulation: 3/5 - 3/9
- MSG Enhancements Phase 2 Kick Off Call: 3/1
Next Steps

- The next teleconference will take place at 13:00 PPT on Monday, February 13th, 2012.
Reference Slides
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