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 6th, 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: 2/14 – 2/24
- LMPM Unstructured Testing: 2/27 – 3/2

Scenario execution dates are yet to be determined, these will be publish in a later version of the Market Simulation plan as well as the Structured Scenarios will be reviewed on the Market Simulation call taking place February 9th, 2012.
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:*

    | Resource_ID | From_SC (SC_ID) | To_SC\ (SC_ID) | Start_Date   | End_Date   |
    |-------------|-----------------|----------------|--------------|------------|
    | Gen_ABC     | ABCD            | WXYZ           | 02/14/2012   | 12/31/2012 |

• **Due Date?**

  – For guaranteed availability by the start of Market Simulation, forms are due by **COB 02/06/2012**
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
For the LMPM Enhancements Market Simulation, we request that MPs provide a list of transmission interfaces that MPs select to be congested to observe the impacts on the resources whose output affects flow across the congested interfaces and therefore such resources might be mitigated. This includes TCORs (Transmission Corridors), Flowgates (single transmission lines), and Nomograms.

- Submittal date by 2/6
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

<table>
<thead>
<tr>
<th>Scenario Number</th>
<th>RDRP Structured Scenario #3 will be executed February 21(^{st}) – February 29(^{th}) with Trade Date February 24(^{th}) being settled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>End to End RDRR Process</td>
</tr>
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</table>
| 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: 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 Thursday, February 9th, 2012.
Spring Release Communication Plan

• Twice-weekly Checkpoint (Status)
  – Mondays and Thursdays: Teleconference
    • Time: 13:00-15:00 PPT
    • Domestic: (800) 230-1092
      International: (612) 234-9960
      Access Code: N/A
  – Mondays and Thursdays: WebEx
    • URL: www.webmeeting.att.com
    • Meeting Number: 8665282256
    • Access Code: 9365289
ISO System Access Documentation