Fall 2012 Release Market Simulation

Christopher McIntosh
Lead Market Simulation Coordinator

Fall 2012 Release
September 24th, 2012
Agenda

• Market Simulation Initiatives and Timelines
• NGR-REM Phase 2 Simulation
• Data Release 3 (DR3)
• 72 Hour Residual Unit Commitment (RUC)
• Regulatory Must Take Generation (RMTG)
• Contingency Dispatch Enhancements (CDE)
• Transmission Reliability Margin (TRM)
• Commitment Cost Refinements 2012 Green House Gas (GHG)
• Monthly and Annual IRR Template Overview
• MAP Stage Availability
• Next Steps
• Reference Slides
Fall 2012 Release Market Simulation Initiatives and Timelines


**Transmission Reliability Margin** – September 24th, 2012 to September 28th, 2012

**Regulatory Must Take Generation** – September 18th, 2012 to September 24th, 2012

**Data Release and Accessibility Phase 3** – September 24th, 2012 to October 5th, 2012

**Contingency Dispatch Enhancements** – September 20th, 2012 to September 28th, 2012

**Commitment Cost Refinements 2012 Green House Gas** – September 24th, 2012 to September 28th, 2012

**72 Hour Residual Unit Commitment** – September 18th, 2012 to September 21st, 2012

**Replacement Requirements for Schedule Generation of Outages** – October 29th, 2012 to November 2nd, 2012


**ISO Reliability Requirements Annual Enhancement** – September 10th, 2012 to September 14th, 2012
NGR-REM Phase 2 Simulation Timeline

The NGR-REM Phase 2 Simulation timeline –

- NGR-REM Phase 2 Connectivity Testing MAP Stage: 9/10
- NGR-REM Phase 2 Simulation Schedule Dates: TD 9/11 – 9/28
- NGR-REM Phase 2 Unstructured Scenario Execution Dates: TD 9/14, TD 9/17 – 9/21, TD 9/24 and TD 9/28
- NGR-REM Phase 2 Scenario Execution – Week 1 Scenario’s - #1, #2, #3, #4, #5 and #8
  - Week 3 Scenario’s - TD9/25 #6 and #7 - TD9/26 #9 and #10 - TD9/27 #11 and #12

NGR-REM Phase 2 Market Simulation Structured Scenarios -
## Known Technical Variances for NGR-REM Phase 2 Market Simulation

<table>
<thead>
<tr>
<th>#</th>
<th>Application</th>
<th>Severity (H/M/L)</th>
<th>New or Existing Variance</th>
<th>Variance Description</th>
<th>Resolution Expectations</th>
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<tbody>
<tr>
<td>1</td>
<td>ADS</td>
<td>M</td>
<td>Fixed</td>
<td>ADS Trajectory Plot does not properly display negative DOT's and DOP's</td>
<td>Delivered with Fall Release ADS client 5.1.9.3 intermittent issue still outstanding to be fixed in version 5.1.9.4</td>
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Data Release Phase 3 Simulation Timeline

The DR3 Simulation timeline –

- DR3 Connectivity Testing MAP Stage: 9/24
- DR3 Schedule Dates: 9/24 – 10/5 OASIS, MPP 10/1 – 10/5
- DR3 Unstructured Simulation Execution Dates: 9/24 – 10/5
72 Hour Residual Unit Commitment (RUC) Simulation Timeline

The 72 Hour RUC Simulation timeline –

- 72 Hour RUC Connectivity Testing MAP Stage: 9/17
- 72 Hour RUC Schedule Dates: 9/18 – 9/21
- 72 Hour RUC Structured Simulation Execution Dates: 9/18 – 9/20
- 72 Hour RUC Settlements: TD 9/18 – 9/20
- ISO ran the 72 Hour RUC structured scenario for TD’s 9/18, 9/19 and 9/20.

72 Hour RUC Market Simulation Structured Scenario -
72 Hour RUC Structured Scenario 1

- **TD 9/18 – 9/20**
  ELS units of following Market Participants were committed:
  - **NES1** – the unit was committed for 09/19 HE01
  - **DLTA** – 09/19 HE06
  - **JPM1** – 09/20 HE01
- **TD 9/19 – 9/21**
  - **JPM1** – 09/20 HE05
  - **JPM1** – 09/20 HE10
  - **PASA** – 09/21 HE14
- **TD 9/20 – 9/22**
  - **SCE1** – 09/21 HE10
  - **DLTA** – 09/22 HE01
Regulatory Must Take Generation (RMTG) Simulation Timeline

The RMTG Simulation timeline –

- RMTG Connectivity Testing MAP Stage: 9/17
- RMTG Schedule Dates: 9/18 – 9/24
- RMTG Unstructured Simulation Execution Dates: 9/18 – 9/24
Contingency Dispatch Enhancements (CDE) Simulation Timeline

The Contingency Dispatch Enhancements Simulation timeline –

• Contingency Dispatch Enhancements Simulation Schedule Dates: TD 9/20 – 9/28
• Contingency Dispatch Enhancements Structured Scenario Execution Dates: TD 9/20 and TD 9/25 – 9/27
• Contingency Dispatch Enhancements Unstructured Scenario Execution Dates: TD 9/21, TD 9/24 and TD 9/28
• Contingency Dispatch Enhancements Scenario Execution Schedule: Scenario - #9 TD 9/20 @ 14:00, #3 TD 9/25 @ 11:00, #4 TD 9/25 @ 14:00

Contingency Dispatch Enhancements Market Simulation Structured Scenarios -


Note – New ADS client version 5.1.9.3 is needed to see the results of the scenarios it can be found here - https://portalmap.caiso.com/ads_install
Transmission Reliability Margin (TRM) Simulation Timeline

The TRM Simulation timeline –

- TRM Connectivity Testing MAP Stage: 9/24
- TRM Simulation Schedule Dates: TD 9/24 – 9/28
- TRM Structured Scenario Execution Dates: TD 9/25 – 9/27
- TRM Unstructured Scenario Execution Dates: TD 9/24 and 9/28
- TRM Scenario Execution – Scenario’s #1 9/25, #2 9/26 and #3 9/27

TRM Market Simulation Structured Scenarios -
Commitment Cost Refinements 2012 Green House Gas (GHG) Kick Off Simulation Timeline

The GHG Simulation timeline –

- GHG Connectivity Testing MAP Stage: 9/24
- GHG Schedule Dates: 9/24 – 9/28
- GHG Unstructured Simulation Execution Dates: 9/24 – 9/28
New Templates for Resource Adequacy filings:

1. December 2012 Monthly Resource Adequacy
2. Annual 2013 Resource Adequacy

Link to Templates:

• Supply Plan Template

• Resource Adequacy Plan Template
MAP Stage Availability

MAP Stage Fall Release Daily Maintenance Window – 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, September 27\textsuperscript{th}, 2012.
Reference Slides
Fall 2012 Release Market Simulation Plan

- http://www.caiso.com/Documents/Market%20simulation%20plan
ISO System Access Documentation

<table>
<thead>
<tr>
<th>Calendar Day</th>
<th>Day</th>
<th>Review MQS T+2B</th>
<th>Publish Initial Settlement Stmt T+4B</th>
<th>Review OMAR T+6B (noon) The SC will be able to view meter data in OMAR on T+6B only if they submit the data by T+5B</th>
<th>Publish Recalc Settlement Stmt T+9B</th>
<th>Publish Monthly/Invoice</th>
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*Market Simulation START*
# Market Simulation Settlements Calendar

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<th>Review MQS T+2B</th>
<th>Publish Initial Settlement Stmt T+4B</th>
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<th>Publish Monthly/Invoice</th>
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# Communication Plan

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<td>International Call-in: (612) 234-9959</td>
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## WebEx Information

- **Web Address (URL):** [www.webmeeting.att.com](http://www.webmeeting.att.com)
- **Meeting Number:** 8665282256
- **Access Code:** 9365289