Fall 2012 Release Market Simulation

Christopher McIntosh
Lead Market Simulation Coordinator

Fall 2012 Release
October 15th, 2012
Agenda

- Market Simulation Initiatives and Timelines
- Data Release 3 (DR3)
- Commitment Cost Refinements 2012 Green House Gas (GHG)
- 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 October 5th, 2012

**Commitment Cost Refinements 2012 Green House Gas** – September 24th, 2012 to October 12th, 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
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
## Known Technical Variances for Data Release 3 OASIS 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>
</tr>
</thead>
</table>
| 1  | OASIS       | H                | New                      | System Demand -> Wind & Solar Report  
Data not available in affecting the following:  
CSV API: http://oasismap.caiso.com/mrtu-oasis/SingleZip?resultformat=6&queryname=SLD_REN_FCST&startdate=20120902&enddate=20120902 | ISO is addressing the issue |
| 2  | OASIS       | L                | New                      | OASIS Price Ticker not accurate                                                        | ISO is addressing the issue |
| 3  | OASIS       | H                | New                      | MPM Nomogram/Branch Shadow Prices Report - Download for multiple branch IDs not available | ISO is addressing the issue |
| 4  | OASIS       | H                | New                      | Cannot select one or more nodes to query the following reports:  
LMP Prices, AS Clearing Prices, HASP LMP Prices, Interval Locational Marginal Prices, Contingency Dispatch Locational Prices, MPM DA Loc. Prices, MPM RT Locational Prices, MPM Nomogram-Branch Shadow Prices, Net Cleared Conv. Bid Awards Prices | ISO is addressing the issue |
# Known Technical Variances for Data Release 3 OASIS Market Simulation

<table>
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<th>Application</th>
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<tr>
<td>5</td>
<td>OASIS</td>
<td>L</td>
<td>New</td>
<td>Atlas-Publications &amp; Revisions: View for single date must have from &amp; To dates associated (example: From 8/1/2012 To 8/2/2012). Single date will not return data to the View.</td>
<td>ISO is addressing the issue</td>
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<td>6</td>
<td>OASIS</td>
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<td>New</td>
<td>Atlas Publications &amp; Revisions: When querying on multiple days, not all dates are always displayed</td>
<td>ISO is addressing the issue</td>
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<td>7</td>
<td>OASIS</td>
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<td>Evaluated</td>
<td>Default dates for reports do not reset when navigating OASIS reports</td>
<td>ISO is addressing the issue</td>
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<td>OASIS</td>
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<td>Evaluated</td>
<td>Prices -&gt; Interval LMP report: When selecting multiple hours with Group Type &quot;All&quot; selected the report returns an &quot;Invalid Parameters&quot; error. When attempting to select a specific node in the &quot;Group Type&quot; field, the view never materializes and does not return a &quot;no data found for specified parameters&quot; message. The progress bar just keeps scrolling. However, the user is able to download either the CSV or XML in this scenario</td>
<td>ISO is addressing the issue</td>
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Commitment Cost Refinements 2012 Green House Gas (GHG) Simulation Timeline

The GHG Simulation timeline –

- GHG Connectivity Testing MAP Stage: 9/24
- GHG Schedule Dates: 9/24 – 10/12
- GHG Unstructured Simulation Execution Dates: 9/24 – 10/12
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

MAP Stage Outage 10/19 @ 16:00 – 10/29 @ 09:00
Next Steps

- The next teleconference will take place at 13:00 PPT on Thursday, October 25th, 2012.
Reference Slides
Fall 2012 Release Market Simulation Plan

<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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<td>Market Simulation START</td>
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## Market Simulation Settlements Calendar

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<tr>
<th>Calendar Day</th>
<th>Day</th>
<th>Review MQS T+2B</th>
<th>Publish Initial Settlement Stmt T+4B</th>
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## RRSGO Communication Plan 10/25

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Call-in Information</th>
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<tbody>
<tr>
<td>Monday</td>
<td>13:00 - 15:00 PPT</td>
<td>Call-in Number: (800) 398-9386</td>
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<td>International Call-in: (612) 332-0720</td>
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<tr>
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<td>13:00 - 15:00 PPT</td>
<td>Call-in Number: (800) 398-9386</td>
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<td>International Call-in: (612) 332-0720</td>
</tr>
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</table>

### WebEx Information

- **Web Address (URL):** [www.webmeeting.att.com](http://www.webmeeting.att.com)
- **Meeting Number:** 8665282256
- **Access Code:** 9365289
Replacement Requirements for Schedule Generation of Outages Simulation

Market Simulation Scenarios Posted - October 12th
Deadline for registration - October 15th
Simulation Kick Off Call - October 25th
Simulation October 29th – November 2nd, TD 10/31 will be Settled
Teleconference Information new number begining October 25th -
• Call-in Number: (800) 398-9386
• International Call-in: (612) 332-0720

Market Notice Simulation Registration -

Market Notice Simulation Calls -
Replacement Requirements for Schedule Generation of Outages Simulation FAQ’s

1) Is the simulation for the month of Oct 2012 (with data also populated from the month of Oct 2012)? So, Aug 17 is T-45C? Will ISO be preparing the systems this way?
Sim is for October 2012 compliance month. We are not showing the T-45C during market simulation. The simulation is to show new functionality.

2) When will IRR be available for unstructured testing of the new monthly templates? When is the updated IRR guide going to be published?
The new monthly template can be used in Map Stage as of 10/08. We are working on the user guide and please attend the training on 10/19.

3) The simulation is from 10/29 to 11/02 (5 days). What are the dates for unstructured simulations? When can we submit outages? How will the system recognize the planned nature of the outage if the simulation is for Oct 2013? Also the simulation dates are across October & November?
Structured Market Simulation is from 10/29 to 10/31. The environment is open for unstructured testing after 10/31.
5) Do we need to provide the RA values and effective dates for the 9 identified resources? Resource IDs, designation type, rank, MWs for all 9 units. Example:

<table>
<thead>
<tr>
<th>Resource Capacity Contract Number</th>
<th>Resource ID in CAISO Master File</th>
<th>RA Capacity (MW 00.00 No Rounding)</th>
<th>RA Capacity Effective Start Date (mm/dd/yyyy hh:mm:ss)</th>
<th>RA Capacity Effective End Date (mm/dd/yyyy hh:mm:ss)</th>
<th>Capacity Designation</th>
<th>Rank for Replacement Capacity</th>
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<tbody>
<tr>
<td>Test1</td>
<td>ABC_1</td>
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<td>1</td>
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</table>
6) How do we simulate submission of planned and short term opportunity outages, given that there are only 5 days of simulation?
Structured market simulation – ISO will input planned outages.

7) Is the bulletin board part of the market simulation plan?
No

8) The simulation would be for which month? What would be the RA/NQC values that will be used?
All data would be October 2012