SMD2 Testing

Business Issues Committee

Operating Committee

August 2004

For Discussion Purposes Only

SMD2 Readiness

↘ **Testing**

- *ABB, NYISO and Market Participant*

↘ **Training**

- *NYISO Power System Operations, Other NYISO Staff, and Market Participant*

↘ **Department Procedures**

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SMD2 Testing Objectives

- **Validate functional operation / performance**
  - *Ensure software matches requirements and design*
- **Demonstrate integrated Bid-to-Bill capabilities**
- **Ensure Marketplace interfaces are operational**
- **Confirm accuracy of market results**
  - *Day-Ahead Commitment*
  - *Real-Time Scheduling*

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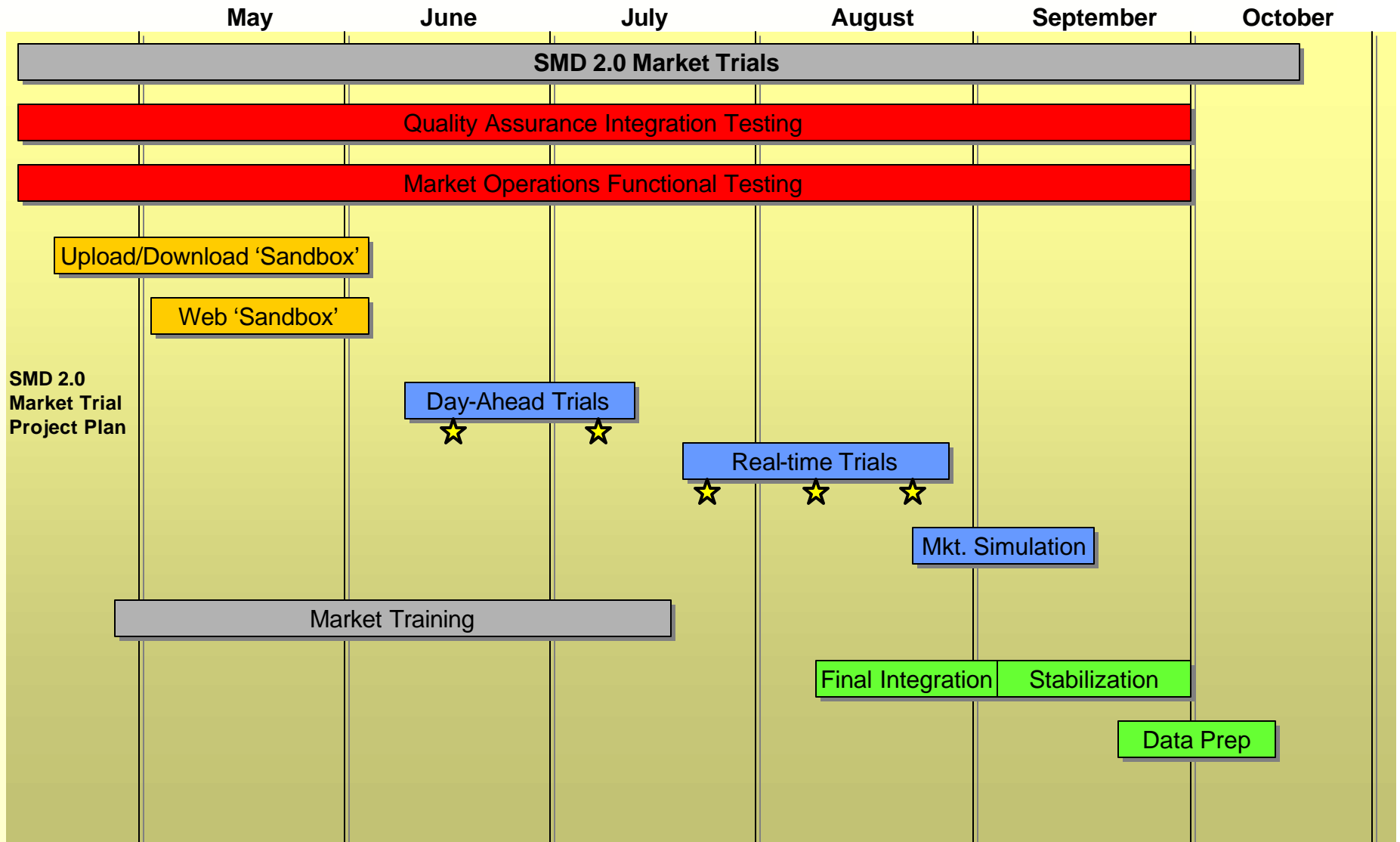**ISO** NEW YORK INDEPENDENT SYSTEM OPERATOR

SMD2 Testing Methodology

- **Factory Acceptance Tests (FAT)**
  - *Validate that vendor deliverables meet requirements*

- **Internal Quality Assurance Testing**
  - *Validate NYISO-developed software*

- **Integrated Testing**
  - *Prove integrated Bid-to-Bill operation*

- **Business Owner / User Acceptance Tests**
  - *Functional validation by business experts; scenario testing*

- **Market Trials**
  - *Confirm Market Participant capabilities; demonstrate readiness*

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SMD2 Testing Schedules

May	June	July	August	September	October

SMD 2.0 Market Trials

Quality Assurance Integration Testing

Market Operations Functional Testing

Upload/Download 'Sandbox'

Web 'Sandbox'

**SMD 2.0
Market Trial
Project Plan**

Day-Ahead Trials

Real-time Trials

Mkt. Simulation

Market Training

Final Integration | Stabilization

Data Prep

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Proposal for Market Results

↘ **Market Simulation**

- *Using historical, Marketplace-provided inputs for the Day-Ahead market*

- *Inputs entered into SMD2 system by NYISO staff*

- *Day-Ahead results compared to current Security Constrained Unit Commitment (SCUC)*

- *Simulation continued into Real-Time*

- *Real-Time results validated by LECG*

- *Day-Ahead and Real-Time results and settlement data posted on NYISO website*

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Next Steps

- **Post issues that Market Participants have identified during Market Trials**

  - *Remove confidential information and consolidate*

- **Plan and schedule Market Simulation**

- **Finalize deployment contingency plans**

  - *Communicate with Marketplace by the end of August*

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