SMD2 Testing

Billing and Accounting
Working Group
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**

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 functions**

- *Day-Ahead Commitment*
- *Real-Time Schedules and Pricing*
- *Settlements*

For Discussion Purposes Only

SMD2 Testing Methodology

⇘ **Factory Acceptance Tests (FAT)**

  ▪ *Validate vendor deliverables meets 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*

For Discussion Purposes Only

SMD2 Testing Schedules
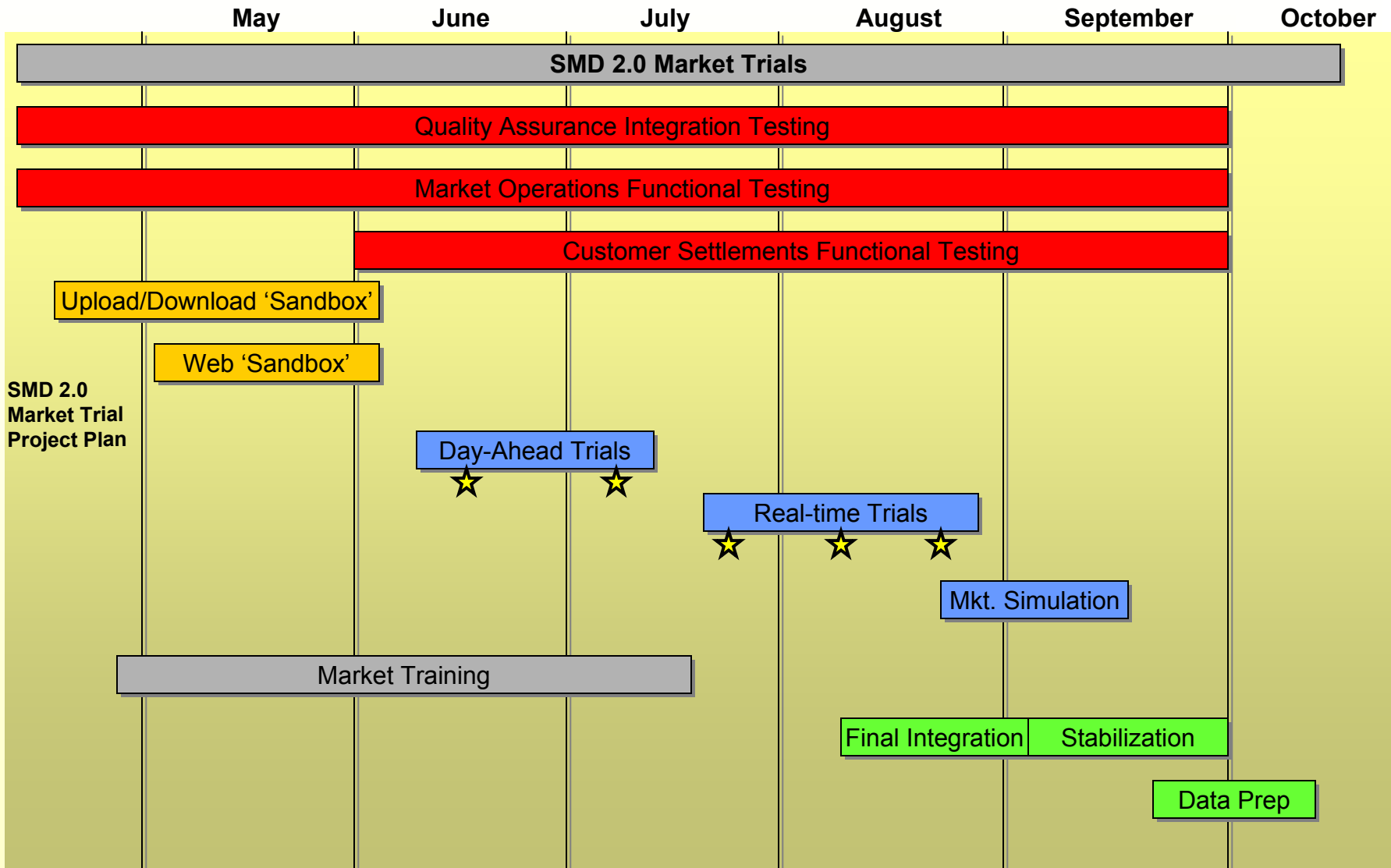
Proposal to Demonstrate SMD2 Readiness

↘ **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 the website*

For Discussion Purposes Only

Next Steps

↘ **Update posting of issues that Market Participants have identified during Market Trials**

- ▪ *Remove confidential information and consolidate*
- ▪ *Provide status on resolutions*

↘ **Plan and schedule Market Simulation**

↘ **Finalize deployment contingency plans**

- ▪ *Communicate with Marketplace by the end of August*

For Discussion Purposes Only