Market Trials for SMD2

Presented to the

Billing and Accounting Working Group

October 28, 2003

Agenda # 7

NEW YORK
INDEPENDENT
SYSTEM OPERATOR

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purposes only

SMD2 Market Trials is a term that covers:

- Site Acceptance Testing (SAT) of purchased hardware and applications

- Integrated system testing

- Stress / scenario testing

- Market Participant interactive exercises

Start of Market Trials Milestone Criteria:

- One complete ABB system delivered, installed, and operational with the latest common software release
- ABB Phase I software functionality installed
- Integration with NYISO Market Information System (MIS) to enable transfer of bid inputs and schedule outputs
- Site Acceptance Test Plan complete and initiated
- TO systems connected to SMD2 system via ICCP
- Configuration management update process in place and utilized
- Scheduled for November 1

Site Acceptance Test (SAT)

- Applies to new SMD2 hardware and applications

- The execution of specific, pre-defined test procedures designed to verify that system performance meets specifications at the function / module level.

- Issue tracking / resolution system in place from Factory Acceptance Test process
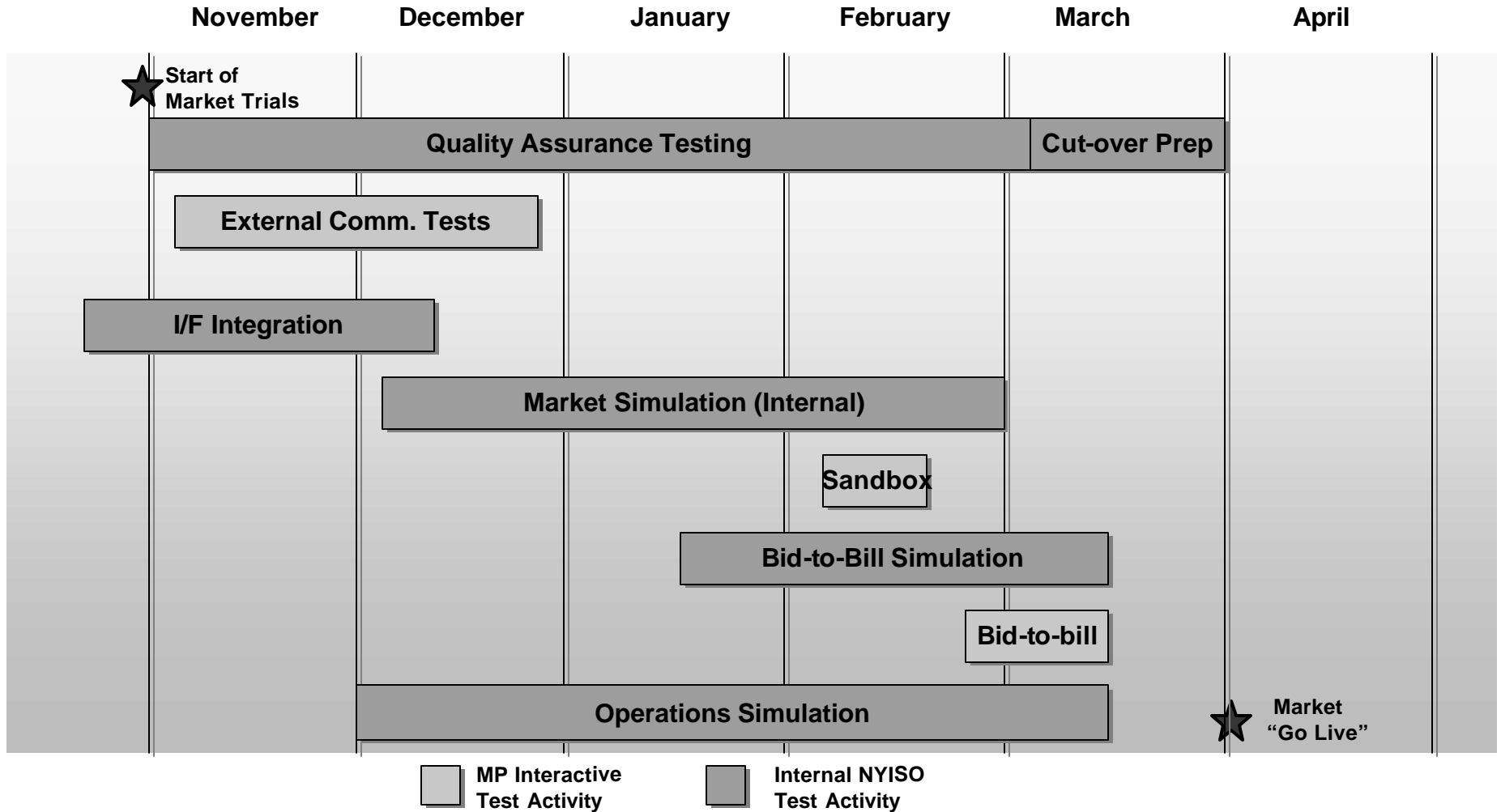
Integrated System Testing

- Verification of interfaces
  - MIS, OSS, BAS, DSS, etc.

- Verification of external communications
  - TO, ISO, Generators

- Test and validation of bid-to-bill process
  - LECG will validate results

- Parallel operation with legacy systems
- Failover and recovery testing
- Security and firewall testing

Stress / Scenario Testing

- Based upon save cases
  - Historical days
  - Low, medium, and high load conditions
  - 23 / 25 hour day
- Perturbation (what if) scenarios will stress specific functionality (e.g. demand curve performance)
  - Network modifications
  - Shortage conditions
- Market Participant participation
  - MP panel will provide input to test cases, and review results

Market Participant Interactive Exercises

- ## MIS / OSS / OASIS "sandbox" exercises

  - Administrative functions
  - Bid / offer management
  - Schedules
  - Access to SMD2 OASIS results
  - Access to settlement results

- ## Bid-to-bill exercise

  - Participate in full simulated day operations
  - NYISO hosted review of results following exercise

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| November | December | January | February | March | April |

Start of Market Trials

Quality Assurance Testing | **Cut-over Prep**

External Comm. Tests

I/F Integration

Market Simulation (Internal)

Sandbox

Bid-to-Bill Simulation

Bid-to-bill

Operations Simulation

Market "Go Live"

MP Interactive Test Activity | Internal NYISO Test Activity

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SMD 2 Technical Conference

- Aimed at user IT staff
- Will define user system changes required to support SMD2
- Scheduled for November 19 – Location TBD
- Please make every effort to see that your company is represented