

Market Trials for SMD2

Presented to the
Market Structures Working Group
October 14, 2003
Agenda # 3

Draft - for discussion
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

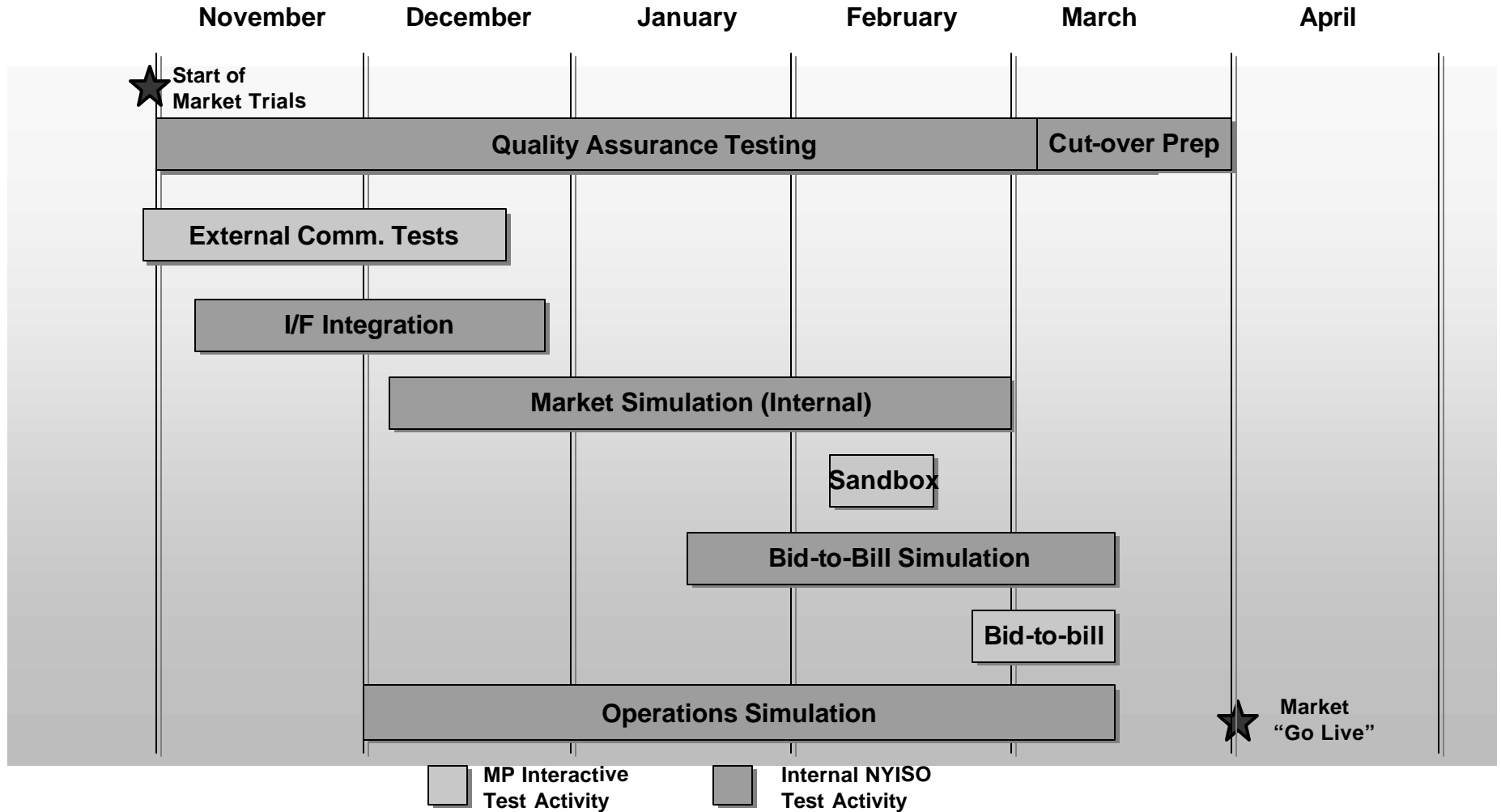
- Verification of interfaces
 - MIS, OSS, BAS, DSS, etc.
- Verification of external communications
 - TO, ISO, Generators
- Test and validation of bid-to-bill process
 - LECG will validate results
- Parallel operation with legacy systems
- Failover and recovery testing
- Security and firewall testing

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 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



Market Participant Participation in Market Trials

- Suggestions made at Sector Meetings
 - Small MP group preview Market Trials
 - Task Force review of Market Trial results
- Confidentiality limitations
 - Save cases use real bids / data
 - Scenario testing manipulates real assets / bidding behaviors
- NYISO is open to suggestions for MP participation