



Southwest Power Pool
EIS MARKET IMPLEMENTATION STATUS
September 1, 2006
Net Conference

• A G E N D A •

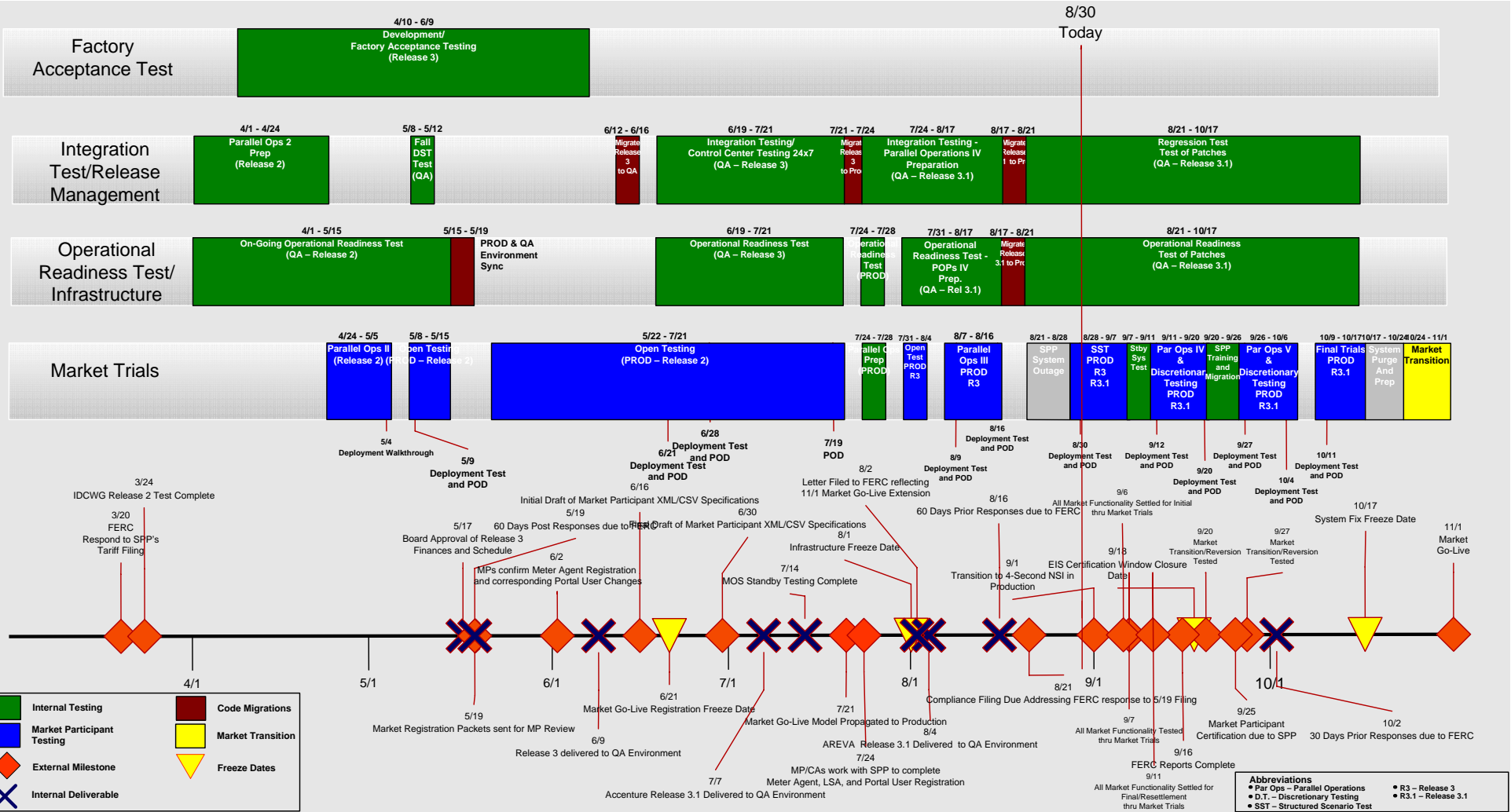
2:00 p.m. – 4:00 p.m. central

1. Orientation Lanny Nickell
2. Overview of Market Implementaiton Schedule* Richard Dillon
3. Status of Market Implementation* Lanny Nickell
 - a. Executive Summary
 - b. Status by Area
 - c. Risks
4. Open Discussion..... All
5. Closing Remarks and Action Items Lanny Nickell

* Written Questions Considered



Energy Market Implementation Critical Path Snapshot as of Wednesday, August 30, 2006





Energy Market Implementation Critical Path Snapshot as of Wednesday, August 30, 2006

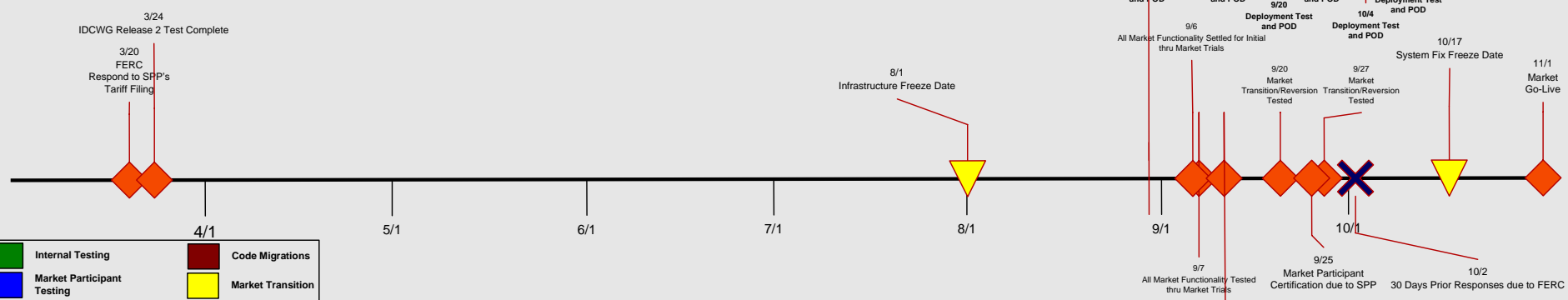
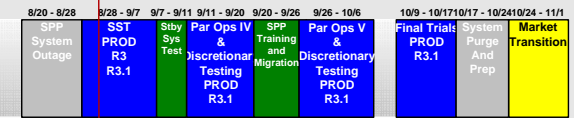
8/30
Today

Factory
Acceptance Test

Integration
Test/Release
Management

Operational
Readiness Test/
Infrastructure

Market Trials



■ Internal Testing	■ Code Migrations
■ Market Participant Testing	■ Market Transition
◆ External Milestone	▼ Freeze Dates
✕ Internal Deliverable	

Abbreviations	• Par Ops – Parallel Operations	• R3 – Release 3
	• D.T. – Discretionary Testing	• R3.1 – Release 3.1
	• SST – Structured Scenario Test	

SPP Board of Directors
Imbalance Market Bi-Weekly Status Report
9/01/06

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Executive Summary

At this time, SPP Management believes that a November 1 launch of the SPP Energy Imbalance Services (EIS) Market is reasonable and achievable.

- During the deployment tests, SPP and its market participants identified discrete operational issues and needed system enhancements. Neither the operational issues nor the necessary system enhancements identified thus far are expected to interfere with the start date.
- SPP expects to be ready for a November 1 launch and projects that a necessary critical mass of its market participants will be ready as well. The critical readiness issues raised thus far have been or are expected to be resolved prior to start.
- During the week of August 21, SPP experienced a loss of the production Market Operations System (MOS) database. The lost week of Market Trials open testing is recoverable through the shifting and compressing of the remaining testing activities. That experience has resulted in (1) the installation of the standby MOS, (2) an organizational restructuring of the database administration area of the IT department, and (3) valuable lessons learned.

Status

Legend	
R	An issue that if not corrected would prevent a November 1 implementation
Y	An issue that may be worked around or completed in the timeline that creates additional risk; however, the November 1st go-live is still anticipated to be viable
G	Item is ready to go live on November 1 st

Policy and Regulatory

Area	R/Y/G	Comments
FERC	Y	<ul style="list-style-type: none"> Filing will be submitted by 8/31 in accordance with the 60 days prior to implementation requirement. Additional filings are due on 10/2/2006, 10/31/2006, 1/2/2007 and 11/1/2007.
NERC	G	<ul style="list-style-type: none"> All waivers required prior to implementation have been received. SPP followed up on NERC recommendations, including a visit to MISO. This follow-up resulted in additional testing and systems.
State Regulatory	G	<ul style="list-style-type: none"> SPP and/or its members have received the requested approvals for the transfer of functional control of transmission facilities in two of the three states where applications have been made. Orders have been issued in Arkansas and Missouri, and the Parties await an Order in Kansas. In the Arkansas and Missouri Orders, there are requirements to monitor and report on costs and benefits associated with the EIS market. No state hindrances to the implementation of the EIS market are known or expected.
MITF	Y	<ul style="list-style-type: none"> MITF reviewed the Market Trials schedule, revised to reflect losing the week of 8/21 (due to aforementioned production database issue). Schedule is conceptually approved, and details are being documented.

Testing

Area	R/Y/G	Comments
Testing	G	<ul style="list-style-type: none"> There are 33 open system issues that need to be resolved prior to go-live. Of the 33 issues, 8 were identified during market trials; 9 are changes to better support the settlements dispute process; 2 will be resolved by hardware changes; and the remaining 14 have been requested by SPP staff based on market trials experience.

Market Trials

Area	R/Y/G	Comments
Certification (to Offer into the Market)	G	<ul style="list-style-type: none"> Market participants certified to offer into the market represent approximately 94% of market footprint's total generation. All control areas have completed required testing.
Deployment Tests	Y	<ul style="list-style-type: none"> 6 more tests are planned; 4 prior to the FERC certification date. Peak load and evening ramp down tests have been successfully completed. Next test will be morning ramp up. Processes have been modified based on these tests. Additional tests include: Minimum available generation, exceptions, and transition / reversion. Reference Appendix B for deployment test statistics. See Risk I below.
Structured Scenario Tests	Y	<ul style="list-style-type: none"> Scheduled to begin on 8/28. Market trials scenarios include all functionality added for November 1 implementation.

Applications and Infrastructure

Area	R/Y/G	Comments
Architecture	Y	<ul style="list-style-type: none"> The primary remaining item is implementation of standby database for the market operation system. This is not anticipated to affect the November 1 launch date. A root cause analysis of the recent production outage is in process. See Appendix E for more details.
Operations	Y	<ul style="list-style-type: none"> During Parallel Ops 3 (8/7 - 8/17), 3028 of 3048 five-minute cases solved successfully. 4326 of 4351 of all other types of cases solved successfully. 99.51% of all dispatch instructions were successfully sent from SPP, and the Portal was available 100% of the time.

SPP Management Commentary on Internal Department Readiness

Area	R/Y/G	Comments
Department Readiness Summary	Y	<ul style="list-style-type: none"> Nearly all new market positions have been filled, and the staff has been involved in training as well as process and system development efforts. Continued involvement through the remainder of the market trials efforts is expected to be the final step in proving readiness internally. SPP staff is routinely asked to identify concerns about readiness to SPP management. There are open items; however, plans are in place to address these prior to November 1. See Risk I below.

Market Participant Readiness (As reported by Market Participants)

Area	R/Y/G	Comments
Market Participants Ready to Go-live Now	G	<ul style="list-style-type: none"> Tenaska Power Services
Market Participants Expected to be Ready to Go-live	Y	<ul style="list-style-type: none"> American Electric Power Aquila Inc Arkansas Electric Cooperative Corporation Calpine Energy Services Empire District Electric Entergy Power Ventures Exelon Generation Company Golden Spread Electric Cooperative Kansas City Board of Public Utilities Kansas City Power & Light Kansas Electric Power Coop Kansas Power Pool Oklahoma Gas and Electric Oklahoma Municipal Power Authority Redbud Energy Southwestern Public Service Company Westar Energy Western Farmers Electric Cooperative
Market Participants that Do Not Expect to be Ready	R	<ul style="list-style-type: none"> Sunflower Electric Power Corporation
Market Participants Not Responding	Y	<ul style="list-style-type: none"> Coral Power, Grand River Dam Authority and ONEOK Energy Marketing and Trading

SPP Management Commentary on Market Participant Readiness

Area	R/Y/G	Comments
Market Participant Readiness Summary	Y	<ul style="list-style-type: none"> Market participant involvement to date is adequate for a November 1 go-live. See Risk I below. Coral Power, ONEOK Energy Marketing and Trading, and Sunflower will not be able to offer generation into the market. This is not a significant impact.

November 1 Implementation Risks

I. Readiness

SPP management believes that both SPP and market participants will be ready for a November 1 go-live after completing the remainder of market trials. To achieve this go-live date, both parties will be required to continue working through issues in order to achieve a “ready to go-live” status. The risk is that there is not enough time remaining in the schedule to get to a “ready to go-live” status.

Mitigation

- Metrics gathered around each market trials phase to better understand readiness.
- Addition of multiple deployment tests (upon extension of date to 11/1) to continue working through issues.
- SPP management has requested market trials team to work with MITF to identify additional deployment tests (beyond those planned).
- Market participant input has been incorporated into both the SPP Board of Directors biweekly status process as well as the SPP certification (which will be filed with FERC).
- The market trials approach allows re-execution of areas with most issues.
- A round-table discussion is held at every MOPC meeting.
- The Go / No-Go process incorporates members from the following SPP organizational groups: MOPC, ORWG, MWG, MITF, MOTRTF, SPP Staff, BOD, RSC, and SPC.

II. Operational Issues

Operational issues identified during market trials may impact our ability to go live, either based on length of time required for resolution or for the risks they present.

Mitigation

- Deployment tests every week during Market Trials.
- (Prior) reviews of market design by stakeholder reliability groups.
- Debrief sessions with market participants and SPP after every deployment tests.
- Service request process for the documentation of market participant operational issues.

III. Participant Changes

Significant technical changes (e.g. - model / registration updates) driven by market participants may impact the ability to implement on November 1. The probability of this type of change is low, but if one is requested, the impact would be high.

Mitigation

- A market participant data (registration) freeze date has been published and passed.
- A model validation period was provided for market participants.
- A process for the individual assessment of changes prior to SPP committing to performing the changes.

IV. FERC Impacts

Future FERC filings and processes likely will result in additional filings and clarifications, potentially impacting go-live.

Mitigation

- FERC is knowledgeable of the schedule, including market trials.
- FERC has observed some of the market trials to date.
- SPP is responding promptly to FERC requests.

V. System Changes

The addition of market participants executing multiple test scenarios likely will uncover new system issues and changes. FERC or the metrics task forces may also propose additional changes. Depending on the magnitude of the changes, we may not be able to accommodate them and still achieve a November 1 implementation.

Mitigation

- SPP is communicating changes / issues quickly upon discovery.
- Only as a last resort will SPP make changes that impact market participant integration points.
- Only high and critical system issues are being worked.

Upcoming Events (next two weeks)

Policy and Regulatory

- FERC Filing due by 8/31

Market Trials

- 8/30 Deployment Test (Morning Ramp)
- 9/12 Deployment Test (Minimum Available Generation)
- Structured scenario testing (8/28 through 9/7)

Applications and Infrastructure

- Root cause analysis of Loss of Production Market Operations System
- Implementation and testing of Market Operations System standby system

Appendix A: Market Footprint Report

Market Footprint Report				
Market Participant	Max Generation in MW	Number of Assets	Certified Assets	Number of Load Points
Arkansas Electric Cooperative Corporation	657	4	X	1
American Electric Power	10929	41	X	2
Calpine Energy Services	1244	3	X	0
Coral Power	2282	3		0
Empire District Electric	1620	16	X	2
Entergy Power Ventures	580	1	X	0
Exelon Generation Company	894	1	X	0
Grand River Dam Authority	1504	5	X	2
Golden Spread Electric Cooperative	630	2	X	3
Kansas City Board of Public Utilities	622	7	X	1
Kansas Electric Power Coop	N/A	0		2
Kansas City Power & Light	4347	25	X	1
Kansas Power Pool	N/A	0		7
Oklahoma Gas and Electric	7042	25	X	1
Oklahoma Municipal Power Authority	200	3	X	3
ONEOK Energy Marketing and Trading	672	1		0
Redbud Energy	1264	1	X	0
Sunflower Electric Cooperative	570	5	X	1
Southwestern Public Service Company	5825	45	X	1
Tenaska Power Services	260	1	X	0
Aquilia Inc	785	9	X	1
Western Farmers Electric Cooperative	1349	7	X	4
Westar Energy	6138	35	X	4
Total	49414	240	236	36

Appendix B: System Wide Deployment Test Statistics

System-Wide Deployment Control Test								
Date	Scenario	Peak Load	Total MW Level Offered	Total MW Level Deployed	Min LIP	Median LIP	Max LIP	Market Participants Not Participating
8/15/06	Evening Drop Off: 4 Hours <i>9 PM to 1 AM CDT</i>	27,468 MW	10,565 MW	13,674 MW	\$(2,615.71)	\$43.96	\$679.57	<ul style="list-style-type: none"> • Coral Power • Entergy Power Ventures • Exelon Generation Company • Golden Spread Electric Cooperative • ONEOK Energy Marketing & Trading
8/11/06	Peak Load: 3 Hours <i>11 AM to 2 PM CDT</i>	31,216 MW	8,552 MW	12,318 MW	\$(324.35)	\$68.20	\$1705.15	<ul style="list-style-type: none"> • Coral Power • Entergy Power Ventures • Exelon Generation Company • Golden Spread Electric Cooperative • ONEOK Energy Marketing & Trading
6/28/06	Summer Peak: 3 Hours (Note: test terminated early after 2 hours) <i>11 AM to 2 PM CDT</i>	24,961 MW	12,122 MW	12,367 MW	\$(4.19)	NA	\$114.84	<ul style="list-style-type: none"> • Arkansas Electric Cooperative Corporation • Calpine Energy Services • Coral Power • Entergy Power Ventures • Exelon Generation Company • Oklahoma Municipal Power Authority • ONEOK Energy Marketing & Trading • Tenaska Power Services

6/21/06	Summer Peak: 2 Hours 12 PM to 2 PM CDT	29,870	6,306 MW	7,974 MW	\$(38.73)	NA	\$854.99	<ul style="list-style-type: none"> • Arkansas Electric Cooperative Corporation • Calpine Energy Services • Coral Power • Entergy Power Ventures • Exelon Generation Company • Oklahoma Municipal Power Authority • ONEOK Energy Marketing & Trading • Tenaska Power Services
5/9/06	Flat Load: 1 Hour 12 PM to 1 PM CDT	27,769	4,150 MW	5,332 MW	\$53.85	\$53.85	\$53.85	<ul style="list-style-type: none"> • Data not available

Legend	
Peak Load	Peak SPP market footprint load during the test.
Total MW Level Offered	Peak range of MWs deployable by the market system (technical explanation: resource plan maximum minus resource plan minimum for available resources with ramp rate not equal to zero).
Total MW Level Deployed	Peak sum of deployment instructions for those resources that were deployed.
Min, Median and MAX LIP	Hourly minimum, average and maximum locational imbalance prices.

Appendix C: Management Response to Failed and Late Metrics*

Legend	
R	Continued failure or lateness of task measured by metric has a significant impact to the ability to go-live November 1.
Y	Failure or lateness of task measured by metric is not yet resolved; however, task is expected to be complete or there is a viable work around so as not to impact a November 1 go-live.
G	Failure or lateness of task measured by metric has since been resolved or does not present a risk to go-live on November 1.

Metric Reference	Readiness Metric	Status	Management Response	Risk
9.1	SPP Verifies all critical functioning of real time systems (MOS, RTO_SS, CAT) has remained active and stable for 24 Hours for 7 consecutive days (Note: This metric excludes planned outages.	Failed Release 2 Metric	<ul style="list-style-type: none"> Metric has been added to Release 3 metrics. Monitoring and daily reporting has been implemented to more quickly identify system issues. Internal SLAs developed to establish common expectations for uptime. 	Y
13.2	Simultaneous Submittal of Meter Data Tested	Failed Release 2 Metric	<ul style="list-style-type: none"> Test rescheduled for 8/28; requires 20 users. SPP has simulated using 40 users. 	G
15.9	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle	Failed Release 3 Metric	<ul style="list-style-type: none"> Will continue to watch in future phases. Expect to pass prior to go-live. 	Y
15.12	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 15.9 	Y

* Note: Full metrics are provided separate from this status document. If more information is desired, the management response can be cross-referenced to the actual metric using the Metric Reference column.

Metric Reference	Readiness Metric	Status	Management Response	Risk
15.13	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle	Failed Release 3 Metric	• Same as 15.9	Y
15.15	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle	Failed Release 3 Metric	• Same as 15.9	Y
15.16	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Failed Release 3 Metric	• Same as 15.9	Y
15.17	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle	Failed Release 3 Metric	• Received a fix, passed the retest.	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
18.13	No single Control Area can exceed 4 CPS2 violations for the duration of the 6/21 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Metric is monitored every deployment test, needs to be passed before go-live. 	Y
18.16	No single Control Area can exceed 4 CPS2 violations for the duration of the 6/28 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.13 	Y
18.24	No single Control Area can exceed 4 CPS2 violations for the duration of the 8/16 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.13 	Y
18.25	At least 85% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 80% of the 8/23 deployment test duration	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.13 	Y
18.26	No more than 36 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/23 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.13 	Y
18.27	No single Control Area can exceed 4 CPS2 violations for the duration of the 8/23 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.13 	Y
18.28	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.13 	Y
18.33	Approval of completion of 8/9, 8/16, 8/23, and 8/30 Deployment Tests based upon Market Trials Success Criteria	Failed Release 3 Metric	<ul style="list-style-type: none"> Due to cancellation of 8/23 test, this metric failed. This will not be an issue if readiness is demonstrated through remaining market trials phases. 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
18.34	MITF approves closure of 8/9, 8/16, 8/23, and 8/30 Deployment Tests and submits motion to MWG	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.33 	Y
19.2	Successful participation in POD testing during July	Failed Release 3 Metric	<ul style="list-style-type: none"> If participation levels in future required market trials phases are unacceptable, the issue will be escalated according to SPP's process. 	G
19.3	Successful participation in POD testing during August	Failed Release 3 Metric	<ul style="list-style-type: none"> Participation level has been achieved in further tests. 	G
21.4	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices	Failed Release 3 Metric	<ul style="list-style-type: none"> Measure of participant involvement, not critical to November 1. 	Y
24.4	SPP has measured that Metric 2 (State Estimator has ninety-seven percent (97%) availability of five minute solutions for a one week period) has been satisfied.	Failed Release 3 Metric	<ul style="list-style-type: none"> Going forward, MOTRTF metrics will be reported weekly and any continued issues with this metric will be escalated according to SPP's process. 	Y
24.5	SPP has measured that Metric 3 (State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy for a one week period) has been satisfied.	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 24.4 	Y
24.6	SPP has measured that Metric 4 (Short term load forecast solves 97% of time with high accuracy (+/- 1%) for at least one week and Mid term load forecast solves 95% of time with high accuracy (+/- 3%) for at least one week) has been satisfied.	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 24.4 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
24.15	Technical Test executed successfully.	Failed Release 3 Metric	<ul style="list-style-type: none"> • Same as 9.1. • Note: market participants are not on the systems 24x7 until Parallel Operations IV. Pass/fail will be assessed at that time. 	Y
14.4	60 Days Prior responses filed with FERC	Late Release 3 Metric	<ul style="list-style-type: none"> • On 8/2 a letter was filed indicating that the full filing would be delayed. 	G
14.5	Independent Metrics filed with FERC	Late Release 3 Metric	<ul style="list-style-type: none"> • Same as 14.4 	G
14.6	Pro-Forma Reserve Sharing Agreement filed with FERC	Late Release 3 Metric	<ul style="list-style-type: none"> • Same as 14.4 	G
14.7	Standard Metering Agent Agreement filed with FERC	Late Release 3 Metric	<ul style="list-style-type: none"> • Same as 14.4 	G
14.16	NERC waiver received for Updated Congestion Management Process.	Late Release 3 Metric	<ul style="list-style-type: none"> • The waiver was recently approved by the NERC BOD; issue is now closed. 	G
14.17	Compliance filing due addressing FERC response to 5/19 filing	Late Release 3 Metric	<ul style="list-style-type: none"> • Mistaken due date on metric – filing is due no later than 8/31. 	G
15.4	Market Trials Approach approved by MITF	Late Release 3 Metric	<ul style="list-style-type: none"> • MITF has conceptually approved and indicated agreement with SPP proceeding accordingly. • MITF meeting 8/17 to continue discussions. 	G
16.2	Market Participants representing at least 80% of Market Footprint Generation return completed test scripts as prescribed in the Market Trials Approach document	Late Release 3 Metric	<ul style="list-style-type: none"> • Due to Production database failure on 8/21, test will be postponed. 	Y
16.3	Market Participants representing at least 80% of Market Footprint Generation successfully test \$400 offer cap safety net functionality based on SPP provided test script and expected results	Late Release 3 Metric	<ul style="list-style-type: none"> • Same as 16.2 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
16.4	Market Participants representing at least 80% of Market Footprint Generation successfully test MP Level Load Forecast functionality based on SPP provided test script and expected results	Late Release 3 Metric	• Same as 16.2	Y
16.5	Market Participants representing at least 80% of Market Footprint Generation successfully test over/under commitment functionality based on SPP provided test script and expected results	Late Release 3 Metric	• Same as 16.2	Y
16.6	Market Participants representing at least 80% of Market Footprint Generation successfully view Offer Cap data on SPP.org based on SPP provided test script and expected results	Late Release 3 Metric	• Same as 16.2	Y
16.7	At least 75% of Market Control Area Operators successfully access the backup EI NSI values from OPS1	Late Release 3 Metric	• Same as 16.2	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
16.8	At least 75% of Market Control Areas that have multiple MPs within their area of responsibility successfully test availability of MP related data for those participants within their respective Control Areas based on SPP provided test script and expected results: <ul style="list-style-type: none"> - Hourly Resource Plan - Ancillary Service Plan - Hourly load forecast - 5-minute dispatch instruction, excluding price - Schedules (if any) - Native Load Schedules (if any) - Energy Imbalance calculation for each Settlement Area - Scheduled and Actual Settlement Area Load and/or Generation - Registration information consisting of unit-to-plant groupings and associated settlement location names as well as information needed to associate SPP's network and SCADA models with the corresponding models maintained by the host Balancing Authority 	Late Release 3 Metric	<ul style="list-style-type: none"> • Same as 16.2 	Y
16.9	At least 80% of Market Participants registered to use NLS successfully test enforcement of submission timing rules based on SPP-provided test script and expected results	Late Release 3 Metric	<ul style="list-style-type: none"> • Same as 16.2 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
16.10	Market Participants representing at least 80% of Market Footprint Generation successfully view substituted LIPs on SPP.org based on SPP provided test script and expected results	Late Release 3 Metric	• Same as 16.2	Y
16.11	Market Participants representing at least 80% of Market Footprint Generation successfully view additional LIP data elements on SPP.org based on SPP-provided test script and expected results	Late Release 3 Metric	• Same as 16.2	Y
16.12	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.13	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.14	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.15	Market Portal is available at least 99.5% of the time for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.16	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.17	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle	Late Release 3 Metric	• Same as 16.2	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
16.18	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.19	ICCP availability of 99.5% throughout the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.20	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.21	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Late Release 3 Metric	• Same as 16.2	Y
16.23	Market Participants representing $\geq 80\%$ of Market Footprint Generation Successfully Completed Structured Scenario Testing based upon Market Trials Success Criteria	Late Release 3 Metric	• Same as 16.2	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
18.19	At least 80% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 75% of the 8/9 deployment test duration	Late Release 3 Metric	• Metric has since passed.	G
18.20	No more than 36 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/9 deployment testing period	Late Release 3 Metric	• Same as 18.19	G
18.21	No single Control Area can exceed 4 CPS2 violations for the duration of the 8/9 deployment testing period	Late Release 3 Metric	• Same as 18.19	G
21.7	At least 70% of Market Assets have meter data submitted for each settlement statement produced during the Structured Scenario testing cycle	Late Release 3 Metric	• Due to Production database failure on 8/21, test will be postponed.	Y
21.8	At least 70% of Market Loads have meter data submitted for each settlement statement produced during the Structured Scenario testing cycle	Late Release 3 Metric	• Same as 21.7	Y
21.9	At least 8 of Control Areas submit Interchange Meter data for each settlement statement produced during the Structured Scenario testing cycle	Late Release 3 Metric	• Same as 21.7	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
21.10	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices	Late Release 3 Metric	• Same as 21.7	Y
21.11	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Structured Scenario testing cycle	Late Release 3 Metric	• Same as 21.7	Y
21.12	Invoices that contain all Settlement Statements from the testing cycle are published during the Structured Scenario testing cycle	Late Release 3 Metric	• Same as 21.7	Y
21.13	Market Participants representing at least 80% of Market Footprint Generation successfully test Meter Agent role functionality based on SPP provided test script and expected results for Structured Scenario Testing	Late Release 3 Metric	• Same as 21.7	Y
21.14	Market Participants representing at least 80% of Market Footprint Generation successfully test Settlement Statement view/query by Settlement Date functionality based on SPP provided test script and expected results for Structured Scenario Testing	Late Release 3 Metric	• Same as 21.7	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
21.15	Market Participants representing at least 80% of Market Footprint Generation successfully test meter data view/query by OD functionality based on SPP provided test script and expected results for Structured Scenario Testing	Late Release 3 Metric	• Same as 21.7	Y
21.16	Market Participants representing at least 80% of Market Footprint Generation verify receipt of Miscellaneous Charges/Credits on at least one Settlement Statement for Structured Scenario Testing	Late Release 3 Metric	• Same as 21.7	Y
21.17	Market Participants representing at least 80% of Market Footprint Generation verify receipt of substitute LIP indicator on at least one Settlement Statement for Structured Scenario Testing	Late Release 3 Metric	• Same as 21.7	Y
22.2	Areva code modules developed	Late Release 3 Metric	• Code was delivered late; testing effort will recover over time.	G
22.3	Accenture code modules developed	Late Release 3 Metric	• Same as 22.2.	G

Metric Reference	Readiness Metric	Status	Management Response	Risk
22.4	DSS code modules developed	Late Release 3 Metric	<ul style="list-style-type: none"> Resources were temporarily reassigned to higher priority items. This is not expected to impact 11/1. 	G
22.5	SPP Internal (interface) modules developed	Late Release 3 Metric	<ul style="list-style-type: none"> Same as 22.2. 	G
22.7	Business Area signoff that Accenture code has met standards necessary for migration of application to integration test	Late Release 3 Metric	<ul style="list-style-type: none"> Same as 22.2. 	G
22.8	Business Area signoff that Areva code has met standards necessary for migration of application to integration test	Late Release 3 Metric	<ul style="list-style-type: none"> Same as 22.2. 	G
22.9	Business Area signoff that SPP Internal code has met standards necessary for migration of application to integration test	Late Release 3 Metric	<ul style="list-style-type: none"> Same as 22.2. 	G
22.10	Business Area signoff that DSS code has met standards necessary for migration of application to integration test	Late Release 3 Metric	<ul style="list-style-type: none"> Same as 22.2. 	G
23.7	Integration Test Release 3 High and Critical SIRs resolved	Late Release 3 Metric	<ul style="list-style-type: none"> System issues (e.g. – SIRs) that are not critical to functionality accuracy are being left open and will continue in the process overlapping market trials. 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
24.2	Performance Testing executed successfully	Late Release 3 Metric	<ul style="list-style-type: none"> Pending server replacement (standard operations). 	Y
24.3	TOs review their parts of Transmission System as it is modeled in the SPP EMS and are able to provide confidence that it is modeled correctly (Metric 1 as defined by MOTRTF).	Late Release 3 Metric	<ul style="list-style-type: none"> TOs will be contacted beginning 8/14 to request confirmation. 	Y
24.13	Archiving and Data Retention Plans for all systems performed on a daily basis.	Late Release 3 Metric	<ul style="list-style-type: none"> Resource allocation issue led to delay. Data archiving has been in place in production environment since 8/7/06. 	G
24.14	SPP Business Owners sign off on operational readiness testing as validating key performance areas working to specifications necessary for market go-live	Late Release 3 Metric	<ul style="list-style-type: none"> Sign-off dependant upon completion of 24.2 	G
24.16	Infrastructure Freeze Date milestone met	Late Release 3 Metric	<ul style="list-style-type: none"> System performance may be impacted negatively, but no functionality is affected. 	R
25.4	Integration Test Release 3.1 High and Critical SIRs resolved	Late Release 3 Metric	<ul style="list-style-type: none"> System issues (e.g.- service requests) that are not critical to functionality accuracy are being left open and will continue in the process overlapping market trials. 	Y

Appendix D: Metrics Due in Next 2 Weeks (Aug. 30th thru Sept. 13th)

14. Business and Regulatory - Release 3					
14.4	Exit	60 Days Prior responses Filed with FERC	A letter notifying the commission of the 11/1/2006 Market Implementaiton Date was filed with FERC on 8/2. Other compliance items related to the 60 days prior response are scheduled to be submitted prior to 8/31	8/16/2006	Late
14.5	Exit	Independent Metrics Filed with FERC	The Independent Metrics are to be filed with FERC prior to 8/31	8/16/2006	Late
14.6	Exit	Pro-Forma Reserve Sharing Agreement Filed with FERC	The Reserve Sharing Agreement is scheduled to be filed with FERC prior to 8/31	8/16/2006	Late
14.7	Exit	Standard Metering Agent Agreement Filed with FERC	The Metering Agent Agreement was approved by Board and is scheduled to be filed prior to 8/31	8/16/2006	Late
14.17	Exit	Compliance filing due addressing FERC response to 5/19 filing	The Compliance Filing is scheduled to be filed prior to 8/31	8/21/2006	Late
16. Structured Scenario Testing - Release 3 (8/28 - 9/7)					
16.2	Exit	Market Participants representing at least 80% of Market Footprint Generation return completed test scripts as prescribed in the Market Trials Approach document	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.3	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test \$400 offer cap safety net functionality based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.4	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test MP Level Load Forecast functionality based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.5	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test over/under commitment functionality based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.6	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully view Offer Cap data on SPP.org based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.7	Exit	At least 75% of Market Control Area Operators successfully access the backup EI NSI values from OPS1	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.8	Exit	At least 75% of Market Control Areas that have multiple MPs within their area of responsibility successfully test availability of MP related data for those participants within their respective Control Areas based on SPP provided test script and expected results: - Hourly Resource Plan - Ancillary Service Plan - Hourly load forecast - 5-minute dispatch instruction, excluding price - Schedules (if any) - Native Load Schedules (if any) - Energy Imbalance calculation for each Settlement Area - Scheduled and Actual Settlement Area Load and/or Generation - Registration information consisting of unit-to-plant groupings and associated settlement location names as well as information needed to associate SPP's network and SCADA models with the corresponding models maintained by the host Balancing Authority	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.9	Exit	At least 80% of Market Participants registered to use NLS successfully test enforcement of submission timing rules based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.10	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully view substituted LIPs on SPP.org based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.11	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully view additional LIP data elements on SPP.org based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.12	Tracking	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.13	Tracking	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.14	Tracking	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.15	Tracking	Market Portal is available at least 99.5% of the time for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.16	Tracking	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.17	Tracking	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		

Reference Number	Type	Readiness Metric	Comments	Target	Actual
16. Structured Scenario Testing - Release 3 (8/28 - 9/7)					
16.18	Tracking	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.19	Tracking	ICCP availability of 99.5% throughout the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.20	Tracking	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.21	Tracking	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.22	Tracking	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.23	Exit	Market Participants representing ≥ 80% of Market Footprint Generation Successfully Completed Structured Scenario Testing based upon Market Trials Success Criteria	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
17. Parallel Operations IV - Release 3 (9/11 - 9/20)					
17.1	Entry	MITF approval of Market Trials Structured Scenario Testing	MITF approval of close of cycle		
17.15	Exit	Technical Test executed successfully.	SPP Verifies all critical functioning of real time systems (MOS, RTO_SS, CAT) have remained active and stable for 24 Hours for 7 consecutive days. The Market Loss functionality impacting RTO_SS is not included in this metric. The solving of the solution will only be measured in regards to CAT. (Note: This metric excludes planned outages. Planned outages may be under an hour for patches and fixes and for significant changes, the outage should be within a reasonable timeframe).	9/1/2006	
17.18	Entry	All Market Functionality is Tested	Due Date moved from 9/1 to 9/7	9/7/2006	
17.19	Entry	All Market Settlement Functionality is Tested	Due Date moved from 9/1 to 9/7	9/7/2006	
18. Deployment Testing (5/9 - 9/14)					
18.4	Exit	The Market Metrics Deployment Task Force renders an opinion that units dispatched in correct economic order		9/13/2006	
18.5	Exit	The Market Metrics Deployment Task Force renders an opinion that ACE maintained within range historically experienced by control area unless deviation is explained and explanation accepted by the control area as a deviation that should not interfere with normal market operations		9/13/2006	
18.6	Exit	The Market Metrics Deployment Task Force renders an opinion that NSI calculation 100% accurate		9/13/2006	
18.7	Exit	The Market Metrics Deployment Task Force renders an opinion that constraints managed in accordance with NERC priorities and SPP protocols and tariff, and CAT working effectively to issue curtailment instructions		9/13/2006	
18.8	Exit	The Market Metrics Deployment Task Force renders an opinion that No line limits violated		9/13/2006	
18.9	Exit	The Market Metrics Deployment Task Force renders an opinion that LIPs within expected ranges		9/13/2006	
8/30 Deployment Test					
18.29	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 8/30 deployment test duration			
18.30	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/30 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.31	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 8/30 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.32	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			

Reference Number	Type	Readiness Metric	Comments	Target	Actual
18. Deployment Testing (5/9 - 9/14)					
9/12 Deployment Test					
18.35	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 9/12 deployment test duration			
18.36	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/12 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.37	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/12 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.38	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
19. Parallel Operations Days (6/7 - 10/16)					
19.3	Tracking	Successful participation in POD testing during August	Participants representing 80% of generation have participated in August POD testing August POD testing dates: 8/9, 8/16, 8/23, and 8/30	9/1/2006	87.5% - 8/11 87.5% - 8/16 Failed - 8/23 - No POD Testing Occurred
19.4	Tracking	Successful participation in POD testing during September	Participants representing 80% of generation have participated in September POD testing September POD testing dates: 9/12, 9/20, 9/27	10/1/2006	
21. Settlements - Release 3 (7/31 - 10/19)					
Structured Scenario Testing - Release 3					
21.7	Tracking	At least 70% of Market Assets have meter data submitted for each settlement statement produced during the Structured Scenario testing cycle	Date rescheduled from 9/6 to 9/13	9/13/2006	
21.8	Tracking	At least 70% of Market Loads have meter data submitted for each settlement statement produced during the Structured Scenario testing cycle	Date rescheduled from 9/6 to 9/13	9/13/2006	
21.9	Tracking	At least 8 of Control Areas submit Interchange Meter data for each settlement statement produced during the Structured Scenario testing cycle	Date rescheduled from 9/6 to 9/13 Based on 11 Control Areas * 70%	9/13/2006	
21.10	Tracking	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.11	Tracking	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Structured Scenario testing cycle	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.12	Tracking	Invoices that contain all Settlement Statements from the testing cycle are published during the Structured Scenario testing cycle	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.13	Tracking	Market Participants representing at least 80% of Market Footprint Generation successfully test Meter Agent role functionality based on SPP provided test script and expected results for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.14	Tracking	Market Participants representing at least 80% of Market Footprint Generation successfully test Settlement Statement view/query by Settlement Date functionality based on SPP provided test script and expected results for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.15	Tracking	Market Participants representing at least 80% of Market Footprint Generation successfully test meter data view/query by OD functionality based on SPP provided test script and expected results for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.16	Tracking	Market Participants representing at least 80% of Market Footprint Generation verify receipt of Miscellaneous Charges/Credits on at least one Settlement Statement for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.17	Tracking	Market Participants representing at least 80% of Market Footprint Generation verify receipt of substitute LIP indicator on at least one Settlement Statement for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	

21. Settlements - Release 3 (7/31 - 10/19)					
Market Metrics Settlement Task Force Metrics					
21.25	Exit	The Market Metrics Settlements Task Force renders an opinion that 75% of Market Participants certify that they are able to download settlement statements and invoices or payout reports		9/13/2006	
21.26	Exit	The Market Metrics Settlements Task Force renders an opinion that all calculations on settlement statement are accurate and all data used in the formulas is retrieved from the correct data source		9/13/2006	
21.27	Exit	The Market Metrics Settlements Task Force renders an opinion that all charges on settlement statement 100% verifiable with data that is readily available to MP		9/13/2006	
21.28	Exit	The Market Metrics Settlements Task Force renders an opinion that invoice can be traced to settlement statements and invoice is 100% accurate		9/13/2006	
21.29	Exit	The Market Metrics Settlements Task Force renders an opinion that calibrated meter data is accurate		9/13/2006	
21.30	Exit	The Market Metrics Settlements Task Force renders an opinion that the calculation of charges and credits for through and out losses is 100% accurate and consistent with protocols for both self-provided and financially settled losses		9/13/2006	
21.31	Exit	The Market Metrics Settlements Task Force renders an opinion that the total revenue neutrality and loss charges/credits for the SPP footprint are accurate		9/13/2006	
21.32	Exit	The Market Metrics Settlements Task Force renders an opinion that the revenue neutrality and loss charges/credits are properly allocated to MPs		9/13/2006	
21.33	Exit	The Market Metrics Settlements Task Force renders an opinion that any miscellaneous charge/credit includes adequate backup information in the settlement statement ZIP files to validate the charge/credit		9/13/2006	
21.34	Exit	The Market Metrics Settlements Task Force renders an opinion that all adjustments on the payout report are properly allocated		9/13/2006	
22. Factory Acceptance Test - Release 3 (4/10 - 6/9)					
22.4	Entry	DSS code modules developed	This module is anticipated to be complete by 9/1	In Progress	
22.10	Exit	Business Area signoff that DSS code has met standards necessary for migration of application to integration test	Outage Data to DSS is scheduled for a later release. This is a concern, since Market Monitoring is analyzing this data starting on 10/1.	In Progress	
23. Integration Test - Release 3 (6/19 - 7/21)					
23.7	Exit	Integration Test Release 3 High and Critical SIRs resolved	There remains 1 High SIR open around ISD link stability		
24. Operational Readiness - Release 3 (6/19 - 7/21)					
24.16	Exit	Infrastructure freeze date milestone met		8/1/2006	In Progress - Anticipated 9/1/2006

Reference Number	Type	Readiness Metric	Comments	Target	Actual
25. Integration Test - Release 3.1 (8/4 - 8/17)					
25.4	Entry	Integration Test Release 3.1 High and Critical SIRs resolved	58 High/Critical SIRs are outstanding.		
27. Market Metrics Task Force Operational Metrics					
27.1	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that during constrained conditions, 100% of constraints were relieved strictly in accordance with Market Protocols and the CAT/DA Design		9/13/2006	
27.2	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that all applicable MPs received appropriate communications directing relief or need for relief of a constraint for the appropriate time period		9/13/2006	
27.3	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that identified constraints were relieved in accordance with Market Protocols and the CAT and DA designs.		9/13/2006	
27.4	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that appropriate Tagged and NLS schedules were curtailed		9/13/2006	
27.5	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that curtailed schedules were removed from the Market engine and that the curtailments were appropriately reflected in the Balancing Area NSI		9/13/2006	
27.6	Exit	The Market Metrics LIPs Task Force renders an opinion that LIPs calculated manually must be identical to LIPs calculated by MOS		9/13/2006	
27.7	Exit	The Market Metrics Load Task Force renders an opinion that Day ahead forecasts developed by MPs serving load and SPP fall within a range of $\pm 10\%$ for 90% of hours during Parallel Operations IV - Release 3.		9/13/2006	
27.8	Exit	The Market Metrics Load Task Force renders an opinion that SPP day ahead load forecasts must be within 4% of the load calculated in SPP settlement statement reported load for 90% of hours during Parallel Operations IV - Release 3		9/13/2006	
27.9	Exit	The Market Metrics Business Continuity Task Force renders an opinion that Suppliers of Regulation Service will submit proxy LIP information to SPP within 24 hours of SPP's request for such information	SPP shall request suppliers of Regulation Service to provide their Incremental Cost of Service for their zone for a period of 3 hours. SPP shall not announce in advance of this request when the request shall be made.	9/13/2006	

Appendix E: Market Operations System Outage

Problem

At approx 8:30pm on Saturday August 19th, physical files on the production market database were mistakenly deleted, causing the database to crash. SPP employs a high availability architecture with mechanisms to recover from multiple types of unplanned outages; however, in this case, those recovery mechanisms did not work.

Impact

The system was unavailable beginning August 19th as the team worked to recover the production database. Therefore, the Market system was not ready for the Structured Scenario Testing which was scheduled to begin Monday August 21st and this testing had to be delayed one week.

Next Steps

- Complete the implementation of the production standby database for the market operation system, which is the final piece of the high availability architecture.
- Perform a root cause analysis on the failure of the recovery mechanism expected to guard against this scenario. The production database should have been recoverable from backup, and this process has been successfully tested several times in the past; however the process did not work this time.

Appendix F: Market Participant Readiness Comments

Summary

The following comments are reported as received by SPP from market participants when collecting market participant readiness information.

Market Participant Submitted Comments on Readiness

Market Participant	Comments
Arkansas Electric Cooperative Corporation	Some functionality will likely be implemented manually initially.
American Electric Power	See comments below.
Calpine Energy Services	We are operationally ready to go live but need to do some fine tuning on our business processes. Realistically, we could be prepared to go live today if needed.
Coral Power	
Empire District Electric	Empire expects to be ready.
Entergy Power Ventures	Any changes to the SP system or specifications by SPP after 8/21/06 will most likely prevent us from being ready.
Exelon Generation Company	We will use the next couple months to prove out the market readiness between SPP, Exelon and our plant, Green Country.
Grand River Dam Authority	
Golden Spread Electric Cooperative	1) The ICCP link for full automation of SPP dispatch is not completed, but should be in early October. 2) There are concerns with the EIS market's impact on GSEC's agreements with SPS.
Kansas City Board of Public Utilities	Market interface software has not been delivered expected delivery date is Sept. 18 th
Kansas Electric Power Coop	KEPCo is responding that we expect to be ready to go live, barring finding out that we have responsibilities that we don't know about now.
Kansas City Power & Light	At this time, KCPS still has issues that need to be tested and/or addressed. Those issues include (but are not limited to): widely fluctuating LIPs during deployment tests; successful testing of our settlement statements; concerns about CAT notifications during the deployment test; joint owned units interfaces; SPP short-term load forecast variations; and slow response time on our system. Failure to successfully resolve these issues during upcoming tests would result in us changing our status to 'red'.
Kansas Power Pool	The KPP Anticipates Ready to go live.

Oklahoma Gas and Electric	The OG&E settlement system and processes have not been tested from end to end. The most recent update to the PCI suite has changed the functionality of both the Settlements and Operational Modules. Testing and acceptance of the Modules will be conducted in the upcoming deployment and parallel operations testing. We plan to have our systems tested and internally certified by late September. By design, OG&E requires a significant additional amount of training in the areas of operations and settlements. OG&E has kept a small core group engaged in the changing market rules and tools and is utilizing this core to train the larger group of operating and settlement personnel since the last software release. OG&E has one joint owned generating (JOU). Significant work has been accomplished to address its' participation in the EIS market. A few contractual and scheduling procedures are outstanding, and we hope to have them complete by October 1 st . Sarbanes Oxley issues are currently being evaluated with expectations of full compliance by October 1 st .
Oklahoma Municipal Power Authority	OMPA expects to be ready to Go-Live.
ONEOK Energy Marketing and Trading	
Redbud Energy	Redbud expects to be ready to go live by the beginning of the EIS Market.
Sunflower Electric Power Corporation	
Southwestern Public Service Company	See comments below.
Tenaska Power Services	
Aquila Inc	Concerned about all market parameters and all SPP and Aquila Software/hardware being fully tested. Same concerns as mentioned by several participants through the MITF meetings.
Western Farmers Electric Cooperative	Concerns are fluctuating LIPs, CAT integrity, unit deployments causing CPS2 violations, and settlement statements verification.
Westar Energy	<ol style="list-style-type: none"> 1) SPP MP Load Forecast variance from actual and steps SPP plans to take to correct may cause the BA to incur charges that may not be recovered. 2) SPP deployment signals ramp units beyond submitted ramp rate causing EIS and potential URD charges. 3) CAT process doesn't communicate to BA enough information to respond – there has to be a reason communicated to the GBA that schedules are going to be changed. 4) With the recent collapse of the SPP MOS systems, WR has concerns about the ability for SPP to fully recover their systems.

AEP:

- i) What is the current stability and accuracy of the SPP Market Operations Systems given the recent unplanned outage? What are the implications to the Project Schedule? What plan has been put in place to prevent this issue from occurring again?
- ii) During the 8/16-16 deployment test a disconnect was discovered with Market Schedule curtailments and the fact the schedules changes are not being reflected on the e-tag. AEP is concerned that, if our understanding is correct, the proposed work around will required additional staff to effort in the areas of real time market operations, after the fact e-tag schedule adjustments and possibly other areas. The real time market operations staff will apparently be required to manually interpret data being provided by SPP through the RTOSS announce feature. It was expected that such notices would be programmatic and therefore be capable of being automated through software systems already utilizing the Automatic Program Interface. Absent such manual work AEP may be exposed to imbalance cost and under scheduling charges which were not anticipated and may be in excess of its own fuel costs. The effort required for PSE and BA's involvement in the after the fact E-tag modifications, under SPP's direction, so that the E-Tag values to match the scheduled values in RTOS is not known. AEP anticipates additional internal workarounds to insure accurate and timely billing. At this time AEP has not fully assessed the impacts associated with this issue.
- iii) AEP is concerned with the large oscillations in LIPS on the 8/15-16-deployment test and the resulting CPS2 violations. In addition SPP concluded that a significant factor contributing to the volatility during the test was SPP's manual adjustment to the short-term forecast. What steps are being taken increase the accuracy of the load forecasting process?
- iv) When does SPP plan to implement the 4-second RTOSS NSI into production? SPP has communicated a start date on multiple occasions but subsequently the date has shifted.

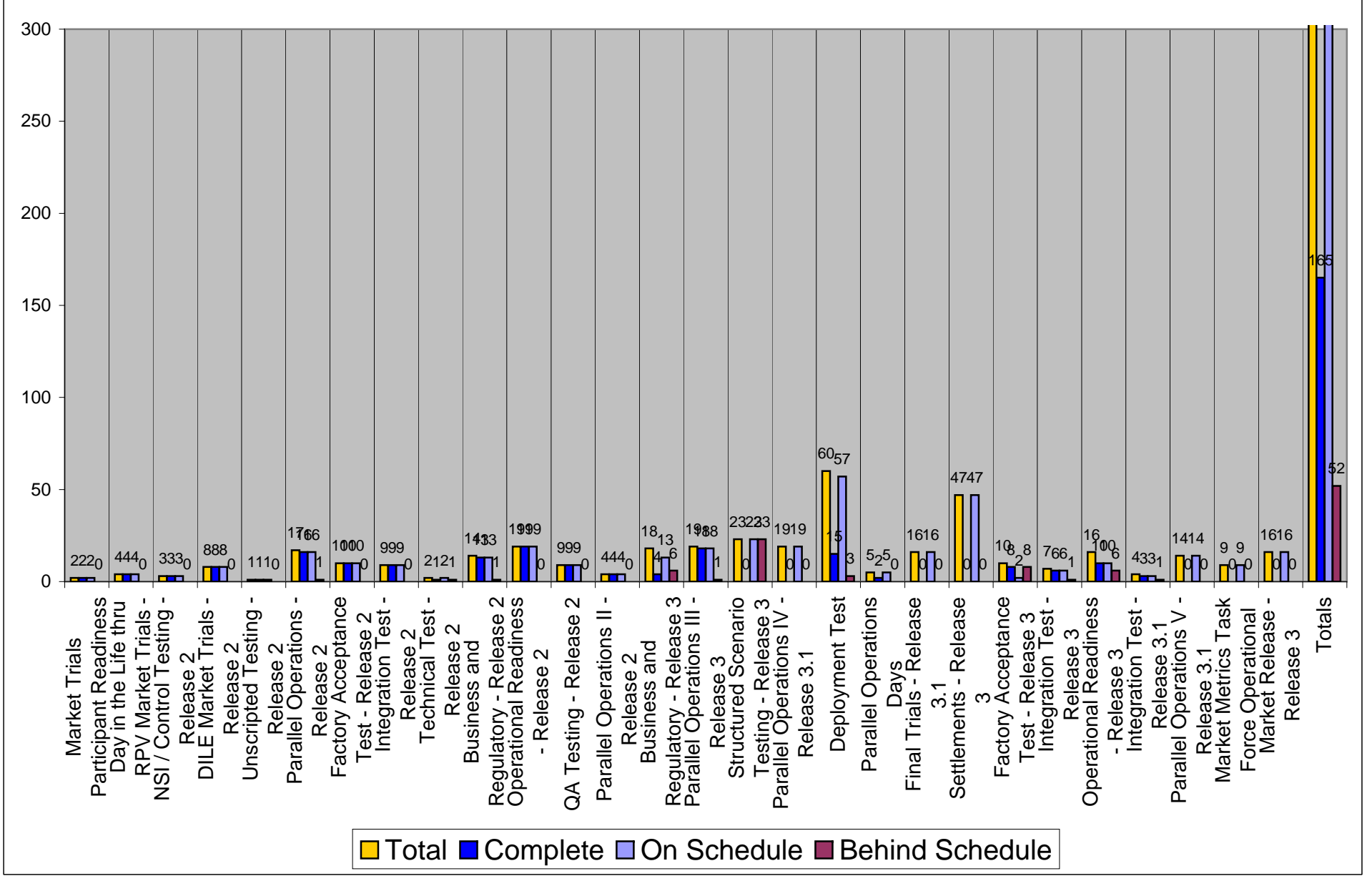
SPS:

SPS has devoted significant effort to development of systems and personnel resources to support the SPP EIS market. At this juncture, we believe those efforts have been successful. We expect our personnel to be ready for the market, and we are not presently aware of any internal system issues that would prevent us from participating in the market effective November 1, 2006. If we were evaluating readiness solely on SPS' internal systems and personnel, we would report our status as green, except for the fact that we have not yet had an opportunity to fully test our internal settlement systems because market trials and SPP systems have not afforded us an opportunity to run settlements from end to end. For that reason, from an internal perspective, it is most appropriate to report our status as yellow.

However, SPS has a number of concerns about readiness of SPP systems that may impede our ability to effectively participate in the market. We are hopeful that those issues will be resolved, but absent resolution in the very near future, we will likely not be able to certify by September 25, 2006 that we can effectively participate in the market. The issues of primary concern at this point are as follows:

1. During the most recent deployment test, we experienced a number of problems. We received dispatch instructions that did not honor unit ramp rate limitations; there was extreme volatility in LIPs and dispatch instructions during the test; and we had significant problems managing our ACE. SPP has reported to us that these issues were a result of problems with SPP's short-term load forecast. Also, we understand that during the last deployment test, SPP's processes for notifying market participants of schedule curtailments were non-functional, though no SPS schedules were curtailed.
2. As discussed above, issues with market trials and SPP systems have not progressed to a point that we have been able to run our settlement systems from end to end.

Reference Number	Phase	Total	Complete	On Schedule	Behind Schedule	Target Date	Expected Date	Comments Regarding Metrics Behind Schedule
1	Market Trials Participant Readiness	2	2	2	0	9/30/2005	9/30/2005	
2	ICCP/XML Connectivity - Release 2	4	4	4	0	12/2/2005	12/2/2005	
3	Day in the Life thru RPV Market Trials - Release 2	3	3	3	0	12/22/2005	12/22/2005	
4	NSI / Control Testing - Release 2	8	8	8	0	2/10/2006	2/10/2006	
5	DILE Market Trials - Release 2	1	1	1	0	3/3/2006	3/3/2006	
6	Unscripted Testing - Release 2	17	16	16	1	3/24/2006	8/1/2006	The archiving and data retention plan metric is being tracked as part of Operational Readiness - Release 3 and is not yet complete.
7	Parallel Operations - Release 2	10	10	10	0	11/11/2005	11/11/2005	
8	Factory Acceptance Test - Release 2	9	9	9	0	1/13/2006	1/13/2006	
9	Integration Test - Release 2	2	1	2	1	2/16/2006	9/1/2006	The 24X7 Technical Test Metric is not yet complete. This metric is being tracked as part of Parallel Operations IV - Release 3
10	Technical Test - Release 2	14	13	13	1	4/20/2006	7/22/2006	The NERC waiver for the Congestion Management Process has not yet been received. This metric is being tracked as part of Business and Regulatory - Release 3.
11	Business and Regulatory - Release 2	19	19	19	0	5/15/2006	5/15/2006	
12	Operational Readiness - Release 2	9	9	9	0	3/17/2006	3/17/2006	
13	QA Testing - Release 2	4	4	4	0	5/5/2006	5/5/2006	
14	Parallel Operations II - Release 2	18	4	13	6	8/4/2006	8/31/2006	The target date for receiving the NERC waiver for the Congestion Management Process was 7/22/06. This metric was completed on 8/2. Additionally, the 60 day prior responses to be filed on 8/2 will be filed on 8/16. This date was adjusted to reflect the new 11/1/06 Market Implementation Date and have not been filed yet but are expected to be filed by 8/31.
15	Business and Regulatory - Release 3	19	18	18	1	6/15/2006*	8/21/2006*	The market trials approach has not yet been approved, which was targeted for 6/15. The expected date for this metric to be complete is 8/21.
16	Parallel Operations III - Release 3	23	0	23	23	9/1/2006	9/7/2006	Structured Scenario Testing began 1 week late. The schedule was adjusted to reflect this.
17	Structured Scenario Testing - Release 3	19	0	19	0	9/20/2006	9/20/2006	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20
18	Parallel Operations IV - Release 3.1	60	15	57	3	8/9/2006	8/11/2006	The 8/9 Deployment test was rescheduled for 8/11. The 8/23 deployment test was cancelled due to Production Issues.
19	Deployment Test	5	2	5	0	10/16/2006	10/16/2006	
20	Parallel Operations Days	16	0	16	0	9/14/2006	9/14/2006	
21	Final Trials - Release 3.1	47	0	47	0	10/19/2006	10/19/2006	
22	Settlements - Release 3	10	8	2	8	6/9/2006	9/1/2006*	The following FAT metrics were behind schedule: SPP code, AREVA code, Accenture Code, and DSS code. The late delivery of code was caused in part by the late addition of scope, which was approved through the stakeholder process. Additionally, SPP code, AREVA code, and Accenture code which was in scope, was delivered later in the process, but was successfully test as part of Integration Test - Release 3. The DSS code is expected to be delivered by 9/1 but this is only required for internal monitoring needed for market start.
23	Factory Acceptance Test - Release 3	7	6	6	1	7/21/2006	TBD	1 High/ Critical SIR remains open
24	Integration Test - Release 3	16	10	10	6	7/21/2006	9/15/2006	The 24X7 Technical Test Metric is not yet complete. This metric is being tracked as part of Parallel Operations IV - Release 3. The completion of performance test is dependent upon the migration of LIPS, SLIPS, and Offer Caps (on SPP.org) to Production. Once this is complete, performance test can be fully executed and signed off by the business owners. The infrastructure freeze date has not been met due by issues with the MOS standby system.
25	Operational Readiness - Release 3	4	3	3	1	8/17/2006	TBD	Around 58 High/ Critical SIRs remain open, some of which are scheduled for Market Launch
26	Integration Test - Release 3.1	14	0	14	0	10/6/2006	10/6/2006	
27	Parallel Operations V - Release 3.1	9	0	9	0	9/13/2006	9/13/2006	Market Metrics Task Force Operational Metrics
28	Market Release - Release 3	16	0	16	0	11/1/2006	11/1/2006	
Totals		385	165	358	52			



Reference Number	Type	Readiness Metric	Comments	Target	Actual
14. Business and Regulatory - Release 3					
14.1	Exit	Market Protocols Updated For Release 3		5/9/2006	5/8/2006
14.2	Exit	Transition & Reversion Plan Published & Included in 60 Days Post-Tariff Ruling Response	Includes Sign Off	5/19/2006	5/19/2006
14.3	Exit	60 Days Post-Tariff Ruling responses Filed with FERC		5/19/2006	5/19/2006
14.4	Exit	60 Days Prior responses Filed with FERC	A letter notifying the commission of the 11/1/2006 Market Implementaiton Date was filed with FERC on 8/2. Other compliance items related to the 60 days prior response are scheduled to be submitted prior to 8/31	8/16/2006	Late
14.5	Exit	Independent Metrics Filed with FERC	The Independent Metrics are to be filed with FERC prior to 8/31	8/16/2006	Late
14.6	Exit	Pro-Forma Reserve Sharing Agreement Filed with FERC	The Reserve Sharing Agreement is scheduled to be filed with FERC prior to 8/31	8/16/2006	Late
14.7	Exit	Standard Metering Agent Agreement Filed with FERC	The Metering Agent Agreement was approved by Board and is scheduled to be filed prior to 8/31	8/16/2006	Late
14.8	Exit	Market Participant readiness certification Filed with FERC	Participants representing 80% of generation	10/2/2006	
14.9	Exit	Control Area readiness certification Filed with FERC	100% of Control Areas	10/2/2006	
14.10	Exit	SPP readiness certification Filed with FERC		10/2/2006	
14.11	Exit	30 Days Prior responses Filed with FERC		10/2/2006	
14.12	Exit	IDCWG Evaluation of SPP Market Filed with FERC		10/25/2006	
14.13	Exit	NERC Readiness Recommendation of SPP Market Filed with FERC		10/25/2006	
14.14	Exit	Tariff Updates Approved by FERC with no conditions impacting the market go-live		10/1/2006	
14.15	Exit	SPP submits written response to FERC addressing the concerns identified in the initial NERC verification team report.		9/20/2006	
14.16	Exit	NERC Waiver Received for Updated Congestion Management Process.		7/22/2006	Complete - 8/2/2006
14.17	Exit	Compliance filing due addressing FERC response to 5/19 filing	The Compliance Filing is scheduled to be filed prior to 8/31	8/21/2006	Late
14.18	Exit	Market Participant Certification due to SPP		9/25/2006	
15. Parallel Operations III - Release 3 (8/7 - 8/17)					
15.1	Entry	MITF approval of Market Trials Parallel Operations II	One participant had observations related to using the POC forms submitted by participants, and also requested more robust testing in the future. The MITF agreed to close Parallel Operations II noting Market Implementation should not proceed without fixes to the noted system issues.	Complete	
15.2	Entry	Market Trials Approach Completed		6/8/2006	Complete
15.3	Entry	Market Trials Success Criteria Defined		6/7/2006	Complete
15.4	Entry	Market Trials Approach Approved by MITF	This document was reviewed again during the 8/3/06 MITF Meeting with updates requested. It will be discussed during the next MITF meeting.	6/15/2006	Anticipated - 8/21/2006
15.5	Tracking	Market Participants representing at least 80% of Market Footprint Generation submit Market and schedule data consistent with SPP protocols and timelines, using their expected production submission methods, for at least 3 consecutive days	SPP assumes that participants are using their expected production submission methods	Complete - 85.1%	
15.6	Tracking	Model updates made based on returned registration packages as of the 6/21 freeze date	All registration packets were received by 6/21	Complete	
15.7	Tracking	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle		Passed - ~99.6%	
15.8	Tracking	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle		Passed - 99.13%	
15.9	Tracking	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle	Only on August 16th - 11 cases failed	Failed	
15.10	Tracking	Market Operations Portal functionality is available at least 99.5% of the time for the duration of the testing cycle		Passed - 100%	
15.11	Tracking	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle		Passed	
15.12	Tracking	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle	of the time with high accuracy (SE MW within 5% of the base rating or < 50 MW (larger of 2 values is target)) for 50 largest units.	Failed	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
15.13	Tracking	1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle			Failed
15.14	Tracking	ICCP availability of 99.5% throughout the testing cycle			Passed
15.15	Tracking	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle	Only failed for August 16th.		Failed
15.16	Tracking	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Only failed for August 16th.		Failed
15.17	Tracking	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle			No data available due to CAT not turned on in Production
15.18	Entry	Market Trials Success Criteria Approved by MITF		7/14/2006	Complete
15.19	Exit	Market Participants representing ≥ 80% of Market Footprint Generation Successfully Completed Parallel Operations III based upon Market Trials Success Criteria			Complete - Based upon results of metric 15.5
16. Structured Scenario Testing - Release 3 (8/28 - 9/7)					
16.1	Entry	MITF approval of Market Trials Parallel Operations III	MITF approval of close of cycle		Complete
16.2	Exit	Market Participants representing at least 80% of Market Footprint Generation return completed test scripts as prescribed in the Market Trials Approach document	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.3	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test \$400 offer cap safety net functionality based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.4	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test MP Level Load Forecast functionality based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.5	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test over/under commitment functionality based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.6	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully view Offer Cap data on SPP.org based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.7	Exit	At least 75% of Market Control Area Operators successfully access the backup EI NSI values from OPS1	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.8	Exit	At least 75% of Market Control Areas that have multiple MPs within their area of responsibility successfully test availability of MP related data for those participants within their respective Control Areas based on SPP provided test script and expected results: - Hourly Resource Plan - Ancillary Service Plan - Hourly load forecast - 5-minute dispatch instruction, excluding price - Schedules (if any) - Native Load Schedules (if any) - Energy Imbalance calculation for each Settlement Area - Scheduled and Actual Settlement Area Load and/or Generation - Registration information consisting of unit-to-plant groupings and associated settlement location names as well as information needed to associate SPP's network and SCADA models with the corresponding models maintained by the host Balancing Authority	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.9	Exit	At least 80% of Market Participants registered to use NLS successfully test enforcement of submission timing rules based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.10	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully view substituted LIPs on SPP.org based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.11	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully view additional LIP data elements on SPP.org based on SPP provided test script and expected results	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.12	Tracking	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.13	Tracking	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.14	Tracking	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.15	Tracking	Market Portal is available at least 99.5% of the time for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.16	Tracking	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.17	Tracking	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		

Reference Number	Type	Readiness Metric	Comments	Target	Actual
16.18	Tracking	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.19	Tracking	ICCP availability of 99.5% throughout the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.20	Tracking	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.21	Tracking	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
16.22	Tracking	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle		Failed	
16.23	Exit	Market Participants representing ≥ 80% of Market Footprint Generation Successfully Completed Structured Scenario Testing based upon Market Trials Success Criteria	Dates of SST were moved from 8/21 - 9/1 to 8/28 - 9/7		
17. Parallel Operations IV - Release 3 (9/11 - 9/20)					
17.1	Entry	MITF approval of Market Trials Structured Scenario Testing	MITF approval of close of cycle		
17.2	Exit	Market Participants representing at least 80% of Market Footprint Generation submit Market and schedule data consistent with SPP protocols and timelines, using their expected production submission methods, for at least 3 consecutive days	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.3	Exit	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.4	Exit	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.5	Exit	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.6	Exit	Market Operations Portal functionality is available at least 99.5% of the time for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.7	Exit	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.8	Exit	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.9	Exit	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.10	Exit	ICCP availability of 99.5% throughout the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.11	Exit	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.12	Exit	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.13	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.14	Exit	Market Participants representing ≥ 80% of Market Footprint Generation Successfully Completed Parallel Operations IV based upon Market Trials Success Criteria	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20		
17.15	Exit	Technical Test executed successfully.	SPP Verifies all critical functioning of real time systems (MOS, RTO_SS, CAT) have remained active and stable for 24 Hours for 7 consecutive days. The Market Loss functionality impacting RTO_SS is not included in this metric. The solving of the solution will only be measured in regards to CAT. (Note: This metric excludes planned outages. Planned outages may be under an hour for patches and fixes and for significant changes, the outage should be within a reasonable timeframe).	9/1/2006	
17.16	Entry	Transition to 4-second RTO_SS NSI		9/1/2006	8/21/2006
17.17	Exit	FERC Reports Completed	The reports required by FERC are completed by the Market Monitoring Group	9/16/2006	
17.18	Entry	All Market Functionality is Tested	Due Date moved from 9/1 to 9/7	9/7/2006	
17.19	Entry	All Market Settlement Functionality is Tested	Due Date moved from 9/1 to 9/7	9/7/2006	
18. Deployment Testing (5/9 - 9/14)					
18.1	Exit	100% of Market Control Areas Participate in each deployment test	Passed all Deployment Tests up to 8/16		In Progress
18.2	Exit	Market Participants representing at least 80% of Market Footprint Generation participate in all Deployment Control Tests	Passed all Deployment Tests up to 8/16		In Progress
18.3	Exit	All 5-minute Real-time Balancing Studies solve in less than 5 five minutes for the duration of the test	Passed for 6/21 and 6/28 test		In Progress
18.4	Exit	The Market Metrics Deployment Task Force renders an opinion that units dispatched in correct economic order		9/13/2006	
18.5	Exit	The Market Metrics Deployment Task Force renders an opinion that ACE maintained within range historically experienced by control area unless deviation is explained and explanation accepted by the control area as a deviation that should not interfere with normal market operations		9/13/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
18.6	Exit	The Market Metrics Deployment Task Force renders an opinion that NSI calculation 100% accurate		9/13/2006	
18.7	Exit	The Market Metrics Deployment Task Force renders an opinion that constraints managed in accordance with NERC priorities and SPP protocols and tariff, and CAT working effectively to issue curtailment instructions		9/13/2006	
18.8	Exit	The Market Metrics Deployment Task Force renders an opinion that No line limits violated		9/13/2006	
18.9	Exit	The Market Metrics Deployment Task Force renders an opinion that LIPs within expected ranges		9/13/2006	
6/21 Deployment Test					
18.10	Exit	All Market Control Areas certify ability to include EI NSI component into total NSI calculation by start of 6/21 Deployment test		Passed	
18.11	Tracking	At least 70% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 65% of the 6/21 deployment test duration		Passed - 85%	
18.12	Tracking	No more than 36 CPS2 violations across all Market Footprint Control Areas throughout the 6/21 deployment testing period	Based on 2 hour test and 10 Market Control Areas (10 CAs * 2 hours * 6 intervals per hour * 30%)	Passed	
18.13	Tracking	No single Control Area can exceed 4 CPS2 violations for the duration of the 6/21 deployment testing period	Based on 2 hour test (2 hours * 6 intervals per hour * 30%)	Failed	
6/28 Deployment Test					
18.14	Tracking	At least 75% of the online market footprint generation remains within 10% of deployment instructions for at least 70% of the 6/28 deployment test duration		Passed	
18.15	Tracking	No more than 36 CPS2 violations across all Market Footprint Control Areas for the duration of the 6/28 deployment testing period	Based on 2 hour test and 10 Market Control Areas (10 CAs * 2 hours * 6 intervals per hour * 30%)	Passed	
18.16	Tracking	No single Control Area can exceed 4 CPS2 violations for the duration of the 6/28 deployment testing period	Based on 2 hour test (2 hours * 6 intervals per hour * 30%)	Failed	
5/9, 6/21, 6/28 Deployment Tests					
18.17	Exit	Approval of completion of 5/9, 6/21, and 6/28 Deployment Tests based upon Market Trials Success Criteria	Deployment Tests on 5/9, 6/21, and 6/28 have been completed. The MITF approved closure of the 6/21 deployment test and notes the following items associated with the test. SPP and market participants learned a good deal from this test, and MITF expects that experience during that test will result in improved performance in future tests. Examples of problems that were encountered that should be addressed going forward are: <ul style="list-style-type: none"> • market participant responsibilities to manage ACE during a test, • inadequacy of dispatchable range, • higher than expected LIPs, • The unavailability of the SPP Curtailment/Adjustment Tool • Issues noted with the ability of balancing authorities to meet tracking metrics		Complete
18.18	Exit	MITF approves closure of 5/9, 6/21 and 6/28 Deployment Tests and submits motion to MWG.	A draft of the motion was developed during the 6/29 MITF Meeting		Complete
8/9 Deployment Test					
18.19	Tracking	At least 80% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 75% of the 8/9 deployment test duration		Passed - 8/11/2006	
18.20	Tracking	No more than 36 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/9 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 20%)	Passed - 8/11/2006	
18.21	Tracking	No single Control Area can exceed 4 CPS2 violations for the duration of the 8/9 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 20%)	Passed - 8/11/2006	
8/16 Deployment Test					
18.22	Tracking	At least 85% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 80% of the 8/16 deployment test duration			
18.23	Tracking	No more than 36 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/16 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 20%)	Passed - 31 Total CPS2 Violations	
18.24	Tracking	No single Control Area can exceed 4 CPS2 violations for the duration of the 8/16 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 20%)	Failed 3 Control Areas Exceeded Max (6/7/10 Violations)	
8/23 Deployment Test					
18.25	Tracking	At least 85% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 80% of the 8/23 deployment test duration		Failed - Cancelled due to corruption of the production database	
18.26	Tracking	No more than 36 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/23 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 20%)	Failed - Cancelled due to corruption of the production database	
18.27	Tracking	No single Control Area can exceed 4 CPS2 violations for the duration of the 8/23 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 20%)	Failed - Cancelled due to corruption of the production database	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
18.28	Tracking	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.		Failed - Cancelled due to corruption of the production database	
8/30 Deployment Test					
18.29	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 8/30 deployment test duration			
18.30	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/30 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.31	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 8/30 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.32	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
8/9, 8/16, 8/23, 8/30 Deployment Tests					
18.33	Exit	Approval of completion of 8/9, 8/16, 8/23, and 8/30 Deployment Tests based upon Market Trials Success Criteria		Failed - Due to Cancellation of 8/23 Test	
18.34	Exit	MITF approves closure of 8/9, 8/16, 8/23, and 8/30 Deployment Tests and submits motion to MWG		Failed - Due to Cancellation of 8/23 Test	
9/12 Deployment Test					
18.35	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 9/12 deployment test duration			
18.36	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/12 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.37	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/12 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.38	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
9/20 Deployment Test					
18.39	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 9/20 deployment test duration			
18.40	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/20 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.41	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/20 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.42	Exit	Market transition and reversion plan successfully executed			
18.43	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
9/27 Deployment Test					
18.44	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 9/20 deployment test duration			
18.45	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/20 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.46	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/20 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.47	Exit	Market transition and reversion plan successfully executed			
18.48	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
9/12, 9/20, 9/27 Deployment Tests					
18.49	Exit	Approval of completion of 9/12, 9/20, and 9/27 Deployment Tests based upon Market Trials Success Criteria			
18.50	Exit	MITF approves closure of 9/12, 9/20, and 9/27 Deployment Tests and submits motion to MWG			
10/4 Deployment Test					
18.51	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 10/4 deployment test duration			
18.52	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 10/4 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.53	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 10/4 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.54	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
10/11 Deployment Test					

Reference Number	Type	Readiness Metric	Comments	Target	Actual
18.55	Exit	At least 90% of the online market footprint generation remains within 10% of deployment instructions (or 5 MW, whichever is greater) for at least 85% of the 10/11 deployment test duration			
18.56	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 10/11 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.57	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 10/11 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.58	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the deployment test.			
10/4 and 10/11 Deployment Tests					
18.59	Exit	Approval of completion of 10/4 and 10/11 Deployment Tests based upon Market Trials Success Criteria			
18.60	Exit	MITF approves closure of 10/4 and 10/11 Deployment Tests and submits motion to MWG			
19. Parallel Operations Days (6/7 - 10/16)					
19.1	Tracking	Successful participation in POD testing during June	Participants representing 80% of generation have participated in June POD testing June POD testing dates: 6/21, 6/28	7/1/2006	Complete
19.2	Tracking	Successful participation in POD testing during July	Participants representing 80% of generation have participated in July POD testing July POD testing dates: 7/19	8/1/2006	Failed 70% of generation participated
19.3	Tracking	Successful participation in POD testing during August	Participants representing 80% of generation have participated in August POD testing August POD testing dates: 8/9, 8/16, 8/23, and 8/30	9/1/2006	87.5% - 8/11 87.5% - 8/16 Failed - 8/23 No POD Testing Occurred
19.4	Tracking	Successful participation in POD testing during September	Participants representing 80% of generation have participated in September POD testing September POD testing dates: 9/12, 9/20, 9/27	10/1/2006	
19.5	Tracking	Successful participation in POD testing during October	Participants representing 80% of generation have participated in October POD testing October POD testing dates: 10/4 and 10/11	10/16/2006	
20. Final Trials - Release 3.1 (10/9 - 10/17)					
20.1	Entry	MITF approval of Market Trials - Parallel Operations IV	MITF approval of close of cycle		
20.2	Exit	Market Participants representing at least 80% of Market Footprint Generation submit Market and schedule data consistent with SPP protocols and timelines, using their expected production submission methods, for at least 3 consecutive days			
20.3	Exit	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle			
20.4	Exit	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle			
20.5	Exit	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle			
20.6	Exit	Market Operations Portal functionality is available at least 99.5% of the time for the duration of the testing cycle			
20.7	Exit	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle			
20.8	Exit	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle			
20.9	Exit	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy (+/- 3%) for the duration of the testing cycle			
20.10	Exit	ICCP availability of 99.5% throughout the testing cycle			
20.11	Exit	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle			
20.12	Exit	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle			
20.13	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle			
20.14	Exit	Market Participants representing ≥ 80% of Market Footprint Generation Successfully Completed Final Trials based upon Market Trials Success Criteria			
20.15	Exit	MITF approval of Market Trials - Final Trials.	MITF approval of close of cycle		
20.16	Exit	System Freeze Date Milestone Met		10/17/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
21. Settlements - Release 3 (7/31 - 10/19)					
Parallel Operations III - Release 3					
21.1	Tracking	At least 60% of Market Assets have meter data submitted for each settlement statement produced during the Parallel Operations III testing cycle		8/23/2006	Passed
21.2	Tracking	At least 60% of Market Loads have meter data submitted for each settlement statement produced during the Parallel Operations III testing cycle		8/23/2006	Passed - ~91%
21.3	Tracking	At least 6 Control Areas submit Interchange Meter data for each settlement statement produced during the Parallel Operations III testing cycle	Based on 11 Control Areas * 50%	8/23/2006	Passed
21.4	Tracking	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices		8/24/2006	Failed - ~52%
21.5	Tracking	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Parallel Operations III testing cycle		8/24/2006	Passed
21.6	Tracking	Invoices that contain all Settlement Statements from the testing cycle are published during the Parallel Operations III testing cycle		8/24/2006	Passed
Structured Scenario Testing - Release 3					
21.7	Tracking	At least 70% of Market Assets have meter data submitted for each settlement statement produced during the Structured Scenario testing cycle	Date rescheduled from 9/6 to 9/13	9/13/2006	
21.8	Tracking	At least 70% of Market Loads have meter data submitted for each settlement statement produced during the Structured Scenario testing cycle	Date rescheduled from 9/6 to 9/13	9/13/2006	
21.9	Tracking	At least 8 of Control Areas submit Interchange Meter data for each settlement statement produced during the Structured Scenario testing cycle	Date rescheduled from 9/6 to 9/13 Based on 11 Control Areas * 70%	9/13/2006	
21.10	Tracking	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.11	Tracking	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Structured Scenario testing cycle	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.12	Tracking	Invoices that contain all Settlement Statements from the testing cycle are published during the Structured Scenario testing cycle	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.13	Tracking	Market Participants representing at least 80% of Market Footprint Generation successfully test Meter Agent role functionality based on SPP provided test script and expected results for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.14	Tracking	Market Participants representing at least 80% of Market Footprint Generation successfully test Settlement Statement view/query by Settlement Date functionality based on SPP provided test script and expected results for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.15	Tracking	Market Participants representing at least 80% of Market Footprint Generation successfully test meter data view/query by OD functionality based on SPP provided test script and expected results for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.16	Tracking	Market Participants representing at least 80% of Market Footprint Generation verify receipt of Miscellaneous Charges/Credits on at least one Settlement Statement for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
21.17	Tracking	Market Participants representing at least 80% of Market Footprint Generation verify receipt of substitute LIP indicator on at least one Settlement Statement for Structured Scenario Testing	Date rescheduled from 9/7 to 9/14	9/14/2006	
Parallel Operations IV - Release 3.1					
21.18	Exit	At least 80% of Market Assets have meter data submitted for each settlement statement produced during the Parallel Operations IV testing cycle		9/27/2006	
21.19	Exit	At least 80% of Market Loads have meter data submitted for each settlement statement produced during the Parallel Operations IV testing cycle		9/27/2006	
21.20	Exit	At least 10 Control Areas submit Interchange Meter data for each settlement statement produced during the Parallel Operations IV testing cycle	Based on 11 Control Areas * 90%	9/27/2006	
21.21	Exit	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices		9/28/2006	
21.22	Exit	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Parallel Operations IV testing cycle		9/28/2006	
21.23	Exit	Invoices that contain all Settlement Statements from the testing cycle are published during the Parallel Operations IV testing cycle		9/28/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
21.24	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test Meter Agent role functionality based on SPP provided test script and expected results for Parallel Operations IV		9/27/2006	
Market Metrics Settlement Task Force Metrics					
21.25	Exit	The Market Metrics Settlements Task Force renders an opinion that 75% of Market Participants certify that they are able to download settlement statements and invoices or payout reports		9/13/2006	
21.26	Exit	The Market Metrics Settlements Task Force renders an opinion that all calculations on settlement statement are accurate and all data used in the formulas is retrieved from the correct data source		9/13/2006	
21.27	Exit	The Market Metrics Settlements Task Force renders an opinion that all charges on settlement statement 100% verifiable with data that is readily available to MP		9/13/2006	
21.28	Exit	The Market Metrics Settlements Task Force renders an opinion that invoice can be traced to settlement statements and invoice is 100% accurate		9/13/2006	
21.29	Exit	The Market Metrics Settlements Task Force renders an opinion that calibrated meter data is accurate		9/13/2006	
21.30	Exit	The Market Metrics Settlements Task Force renders an opinion that the calculation of charges and credits for through and out losses is 100% accurate and consistent with protocols for both self-provided and financially settled losses		9/13/2006	
21.31	Exit	The Market Metrics Settlements Task Force renders an opinion that the total revenue neutrality and loss charges/credits for the SPP footprint are accurate		9/13/2006	
21.32	Exit	The Market Metrics Settlements Task Force renders an opinion that the revenue neutrality and loss charges/credits are properly allocated to MPs		9/13/2006	
21.33	Exit	The Market Metrics Settlements Task Force renders an opinion that any miscellaneous charge/credit includes adequate backup information in the settlement statement ZIP files to validate the charge/credit		9/13/2006	
21.34	Exit	The Market Metrics Settlements Task Force renders an opinion that all adjustments on the payout report are properly allocated		9/13/2006	
Parallel Operations V - Release 3.1					
21.35	Exit	At least 80% of Market Assets have meter data submitted for each settlement statement produced during the Parallel Operations V testing cycle		10/11/2006	
21.36	Exit	At least 80% of Market Loads have meter data submitted for each settlement statement produced during the Parallel Operations V testing cycle		10/11/2006	
21.37	Exit	At least 10 Control Areas submit Interchange Meter data for each settlement statement produced during the Parallel Operations V testing cycle	Based on 11 Control Areas * 90%	10/11/2006	
21.38	Exit	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices		10/12/2006	
21.39	Exit	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Parallel Operations V testing cycle		10/12/2006	
21.40	Exit	Invoices that contain all Settlement Statements from the testing cycle are published during the Parallel Operations V testing cycle		10/12/2006	
21.41	Exit	Market Participants representing at least 80% of Market Footprint Generation successfully test Meter Agent role functionality based on SPP provided test script and expected results for Parallel Operations V		10/11/2006	
Final Trials - Release 3.1					
21.42	Exit	At least 80% of Market Assets have meter data submitted for each settlement statement produced during the Final Trials testing cycle		10/18/2006	
21.43	Exit	At least 80% of Market Loads have meter data submitted for each settlement statement produced during the Final Trials testing cycle		10/18/2006	
21.44	Exit	At least 10 Control Areas submit Interchange Meter data for each settlement statement produced during the Final Trials testing cycle	Based on 11 Control Areas * 90%	10/18/2006	
21.45	Exit	Market Participants representing at least 80% of Market Footprint Generation return completed settlement statement and invoice verification spreadsheet acknowledging retrieval and review of applicable settlement statements and invoices		10/19/2006	
21.46	Exit	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Final Trials testing cycle		10/19/2006	
21.47	Exit	Invoices that contain all Settlement Statements from the testing cycle are published during the Final Trials testing cycle		10/19/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
22. Factory Acceptance Test - Release 3 (4/10 - 6/9)					
22.1	Entry	OATI code modules developed			Complete
22.2	Entry	Areva code modules developed	<ul style="list-style-type: none"> Deliverability Analysis code to was delivered to Integration Test by on 8/7. This was a late addition to scope following the normal stakeholder process. IDC to MOS is expected for a 7/17 delivery. This was originally to be included in the 6/9 release. This did not impact the start of integration test, but needs to be completed, so integration test may finish on time. 		Complete - 8/7/2006
22.3	Entry	Accenture code modules developed	<ul style="list-style-type: none"> After scope was frozen, there was an item added to the scope through the normal stakeholder process. This item included Revenue Neutrality Report on Market Portal which was delivered to QA for Integration Test on 8/7 		Complete - 8/7/2006
22.4	Entry	DSS code modules developed	This module is anticipated to be complete by 9/1		In Progress
22.5	Entry	SPP Internal (interface) modules developed	<ul style="list-style-type: none"> Deliverability Analysis (MOS) to SFT Interface delivered on 8/7. This was a late addition to scope. MOS to OPS1 and Nodal LIPs were to be delivered on 6/9 and instead was delivered on 6/20 		Complete - 8/7/2006
22.6	Exit	Business Area signoff that OATI code has met standards necessary for migration of application to integration test			Complete
22.7	Exit	Business Area signoff that Accenture code has met standards necessary for migration of application to integration test			Complete - 8/7/2006
22.8	Exit	Business Area signoff that Areva code has met standards necessary for migration of application to integration test			Complete - 8/7/2006
22.9	Exit	Business Area signoff that SPP Internal code has met standards necessary for migration of application to integration test			Complete - 8/7/2006
22.10	Exit	Business Area signoff that DSS code has met standards necessary for migration of application to integration test	Outage Data to DSS is scheduled for a later release. This is a concern, since Market Monitoring is analyzing this data starting on 10/1.		In Progress
23. Integration Test - Release 3 (6/19 - 7/21)					
23.1	Entry	Integration Test Release 3 Approach Completed.		5/19/2006	Complete
23.2	Entry	Integration Test Release 3 Approach Signed Off.		5/26/2006	Complete
23.3	Entry	Integration Test Release 3 Resource Plan Complete.			Complete
23.4	Entry	Integration Test Release 3 Environment Configured.			Complete
23.5	Entry	Integration Test Release 3 Data Generation Procedures Complete.		6/2/2006	Complete
23.6	Tracking	Develop and deliver a functionality list at the conclusion of Integration Test Release 3 confirming the application readiness across all relevant testing functions.	Developed in coordination with the business owners and delivered to Market Trials team for expectation setting with participants.	7/21/2006	7/21/2006
23.7	Exit	Integration Test Release 3 High and Critical SIRs resolved	There remains 1 High SIR open around ISD link stability		
24. Operational Readiness - Release 3 (6/19 - 7/21)					
24.1	Exit	High Availability Testing Executed Successfully.	This testing will verify that transactions failover to the third node.	7/28/2006	7/27/2006
24.2	Exit	Performance Testing Executed Successfully	<p>Performance test high volume market participant transactions on the Portal and batch processes (e.g. studies) that make up the core functionality of the Imbalance Market.</p> <p>Will consist of the following high level items: - Online Processing - Batch Processing - Interface Processing</p> <p>There remains 1 open High SIR relating to the Performance of the LIP page on SPP.org This SIR will be addressed with the upgrade of the server in September.</p>	7/28/2006	Anticipated - 9/15/2006
24.3	Exit	TO's that participate in Market review their part of Transmission System as it is modeled in the SPP EMS and are able to provide confidence that their part is modeled correctly (Metric 1 as defined by MOTRTF).	This metric will continue to be measured ongoing.	7/31/2006	Late
24.4	Exit	SPP has measured that Metric 2, the State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for a one (1) week period, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	Failed
24.5	Exit	SPP has measured that Metric 3, the State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy for a one (1) week period, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	Failed
24.6	Exit	SPP has measured that Metric 4, the Short term load forecast solves 97% of time with high accuracy (+/- 1%) for at least one week and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for at least one week, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	Failed
24.7	Exit	SPP has measured that Metric 5, ICCP availability of 99.5% measured each week, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	
24.8	Exit	SPP has measured that Metric 6, the Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for a one (1) week period, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
24.9	Exit	SPP has measured that Metric 7, the Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for a one (1) week period, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	
24.10	Exit	SPP has measured that Metric 8, the Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint, has been Satisfied.	This metric will continue to be measured ongoing.	7/31/2006	
24.11	Exit	MOPC Approval that Metrics 1 through 8, as Defined by the MOTRIF, Have Been Met	Based off of the new market implementation date, this is no longer a valid metric	8/11/2006	
24.12	Exit	SPP has validated the LIP calculation		Complete	
24.13	Exit	Archiving and Data Retention Plans for all Systems Performed on a Daily Basis.		Complete - 8/11/2006	
24.14	Exit	SPP Business Owners sign off on operational readiness testing as validating key performance areas working to specifications necessary for market go live	There remains 1 open High SIR relating to the Performance of the LIP page on SPP.org This SIR will be addressed with the upgrade of the server in September.	7/28/2006	In Progress - Anticipated 9/15/2006
24.15	Exit	Technical Test executed successfully.	SPP Verifies all critical functioning of real time systems (MOS, RTO_SS, CAT) have remained active and stable for 24 Hours for 7 consecutive days. The Market Loss functionality impacting RTO_SS is not included in this metric. The solving of the solution will only be measured in regards to CAT. (Note: This metric excludes planned outages. Planned outages may be under an hour for patches and fixes and for significant changes, the outage should be within a reasonable timeframe).	This metric will continue to be tracked as part of Parallel Operations IV - Release 3, given that SPP does not feel comfortable passing this metric as it is not measuring functioning of the Real Time Systems for Release 3.	
24.16	Exit	Infrastructure freeze date milestone met		8/1/2006	In Progress - Anticipated 9/1/2006
25. Integration Test - Release 3.1 (8/4 - 8/17)					
25.1	Entry	Integration Test Release 3.1 Test Planning Completed.	This integration test will include the following: · Deliverability Analysis · Revenue Neutrality Report on Market Portal · Adding Miscellaneous Charge Supporting Documentation to Settlement Statement ZIP File · Outage Data to DSS	Complete	
25.2	Entry	Integration Test Release 3.1 Environment Configured.		Complete	
25.3	Entry	Develop and deliver a functionality list at the conclusion of Integration Test Release 3.1 confirming the application readiness across all relevant testing functions.	Developed in coordination with the business owners and delivered to Market Trials team for expectation setting with participants.	8/18/2006	8/18/2006
25.4	Entry	Integration Test Release 3.1 High and Critical SIRs resolved	58 High/Critical SIRs are outstanding.		
26. Parallel Operations V - Release 3.1 (9/26 - 10/6)					
26.1	Entry	MITF approval of Parallel Operations IV Testing	MITF approval of close of cycle		
26.2	Exit	Market Participants representing at least 80% of Market Footprint Generation submit Market and schedule data consistent with SPP protocols and timelines, using their expected production submission methods, for at least 3 consecutive days			
26.3	Exit	At least 97.5% of Hour Ahead Balancing Studies solve within 30 minutes for the duration of the testing cycle			
26.4	Exit	At least 99% of 5-minute Real-time Balancing studies solve in less than 5 five minutes for the duration of the testing cycle			
26.5	Exit	No more than 3 Real-time Balancing studies fail in a row for the duration of the testing cycle			
26.6	Exit	Market Operations Portal functionality is available at least 99.5% of the time for the duration of the testing cycle			
26.7	Exit	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle			
26.8	Exit	State Estimator solves 90% of the time with Mismatch level lower than 50 MW and with high accuracy throughout the testing cycle			
26.9	Exit	Short term load forecast solves 97% of time with high accuracy (+/- 1%) throughout the testing cycle and Mid term load forecast solves 95% of time with high accuracy(+/- 3%) for the duration of the testing cycle			
26.10	Exit	ICCP availability of 99.5% throughout the testing cycle			
26.11	Exit	Real-Time EIS Calculations successful ninety-nine percent (99%) of five (5) minute solutions for the duration of the testing cycle			
26.12	Exit	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle			
26.13	Exit	Dispatch instructions that relieve a constraint have been sent out within 15 minutes of reporting the constraint (if applicable) for the duration of the testing cycle			
26.14	Exit	Market Participants representing ≥ 80% of Market Footprint Generation Successfully Completed Parallel Operations IV based upon Market Trials Success Criteria			
27. Market Metrics Task Force Operational Metrics					
27.1	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that during constrained conditions, 100% of constraints were relieved strictly in accordance with Market Protocols and the CAT/DA Design		9/13/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
27.2	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that all applicable MPs received appropriate communications directing relief or need for relief of a constraint for the appropriate time period		9/13/2006	
27.3	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that identified constraints were relieved in accordance with Market Protocols and the CAT and DA designs.		9/13/2006	
27.4	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that appropriate Tagged and NLS schedules were curtailed		9/13/2006	
27.5	Exit	The Market Metrics Curtailment Adjustment Tool/ Deliverability Analysis Task Force renders an opinion that curtailed schedules were removed from the Market engine and that the curtailments were appropriately reflected in the Balancing Area NSI		9/13/2006	
27.6	Exit	The Market Metrics LIPs Task Force renders an opinion that LIPs calculated manually must be identical to LIPs calculated by MOS		9/13/2006	
27.7	Exit	The Market Metrics Load Task Force renders an opinion that Day ahead forecasts developed by MPs serving load and SPP fall within a range of ±10% for 90% of hours during Parallel Operations IV - Release 3.		9/13/2006	
27.8	Exit	The Market Metrics Load Task Force renders an opinion that SPP day ahead load forecasts must be within 4% of the load calculated in SPP settlement statement reported load for 90% of hours during Parallel Operations IV - Release 3		9/13/2006	
27.9	Exit	The Market Metrics Business Continuity Task Force renders an opinion that Suppliers of Regulation Service will submit proxy LIP information to SPP within 24 hours of SPP's request for such information	SPP shall request suppliers of Regulation Service to provide their Incremental Cost of Service for their zone for a period of 3 hours. SPP shall not announce in advance of this request when the request shall be made.	9/13/2006	
28. Market Release - Release 3.1 (10/24 - 11/1)					
28.1	Entry	Customer Relations Go-Live Procedures Completed.			
28.2	Entry	Customer Relations Go-Live FAQs Completed.			
28.3	Entry	Cutover Walkthrough Scheduled.			
28.4	Entry	Cutover Walkthrough Successfully Completed.			
28.5	Entry	Database cutover scripts completed.			
28.6	Entry	Production environment built.			
28.7	Tracking	Participant offer curves in production.		10/25/2006	
28.8	Tracking	Participant resource plans in production.		10/25/2006	
28.9	Tracking	Capacity Obligations posted by SPP for participants		10/30/2006	
28.10	Tracking	Participant ancillary service plans in production.		10/30/2006	
28.11	Tracking	Participant schedules in production.		10/30/2006	
28.12	Entry	Critical and High Issues resolved prior to Market Go Live.			
28.13	Entry	Go/ No Go Criteria developed.			
28.14	Entry	Go/ No Go Decision point, result is a Go.		10/28/2006	
28.15	Entry	Vendor SLAs for Post Production Support Complete.			
28.16	Tracking	Participant Load Forecast in Production		10/25/2006	

	Not Started
	On Track / Complete
	Minimal Risk
	High Risk
	Closed