

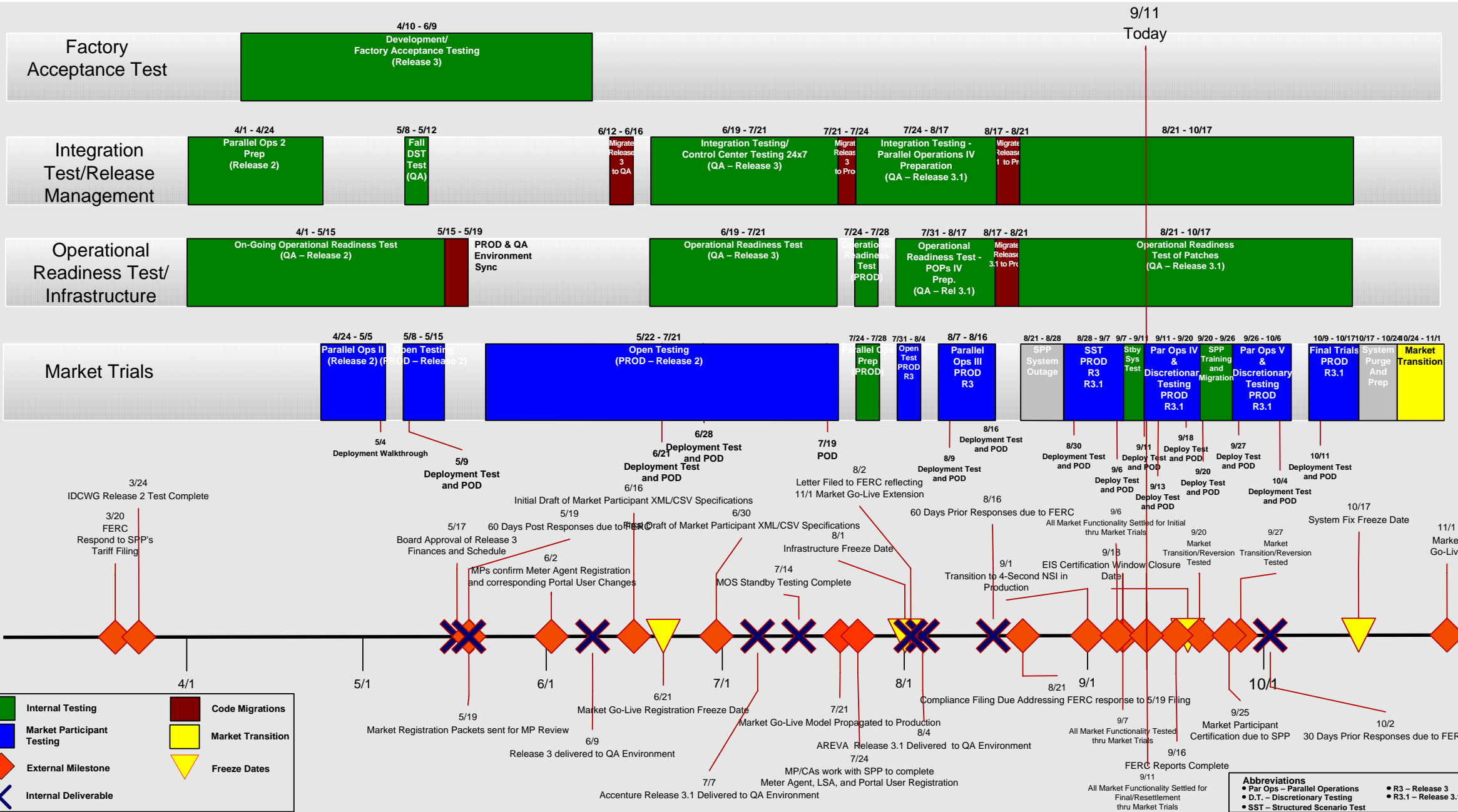


Southwest Power Pool
EIS MARKET IMPLEMENTATION STATUS
September 15, 2006
Net Conference

• A G E N D A •

2:00 p.m. – 4:00 p.m. central

1. Orientation Lanny Nickell
2. Review of Previous Action Items..... 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



SPP Board of Directors
Imbalance Market Bi-Weekly Status Report
9/15/06

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Executive Summary

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

- Market Trials have progressed to the point that as of the end of the day, 9/13, Market Participants have had the opportunity to exercise all functionality, as well as review associated settlement statements.
- SPP observed significant improvements in overall performance by both SPP and Market Participants during the 9/6 and 9/11 deployment tests. Both tests included TLR simulation scenarios. The number and significance of operational, system, and procedural issues identified as a result of these deployment tests have declined compared to those identified in previous tests. None of the issues identified thus far is expected to interfere with the November 1 go-live.
- The results of the Market Operations Tools Readiness Task Force (MOTRTF) metrics, which measure operational parameters, are either satisfactory or have been satisfactorily explained with one exception: the metric measuring Short Term and Mid Term Load Forecasts, which is discussed in Appendix J.
- The findings of the various market participant task forces that were formed to validate the Market Implementation Task Force's (MITF) requested items are due 9/13. The Settlements Task Force submitted results early that indicate all metrics passed or conditionally passed. This particular task force included representatives from AEP, Xcel, KCPL, AECC and Tenaska.
- SPP has begun preparation for the FERC-mandated certification 30 days prior to implementation. SPP continues to track critical path items necessary for certification. These include the work-around identified in Appendix G (II) as well as some open technical issues.

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 1 go-live is still anticipated to be viable
G	Item is ready to go-live on November 1

Policy and Regulatory

Area	R/Y/G	Comments
FERC	Y	<ul style="list-style-type: none"> 60 days prior to implementation filing was submitted. 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"> No change in status.
State Regulatory	G	<ul style="list-style-type: none"> No change in status.
MITF	Y	<ul style="list-style-type: none"> MWG is now invited to all MITF meetings and copied on all MITF correspondence.

Testing

Area	R/Y/G	Comments
Testing	G	<ul style="list-style-type: none"> There are 50 open system issues that need to be resolved prior to go-live. Of the 50 issues, 24 were identified during market trials; 12 are changes to better support the settlements dispute process; 4 will be resolved by hardware changes; and the remaining 10 have been requested by SPP staff based on market trials experience. The increase in open system issues (from 33 in the 9/1 status report) are primarily in the market trials area and result from the deployment tests.

Market Trials

Area	R/Y/G	Comments
Certification (to Offer into the Market)	G	<ul style="list-style-type: none"> No change in status.
Deployment Tests	Y	<ul style="list-style-type: none"> Number of CPS2 violations has shown improvement in recent tests: <ul style="list-style-type: none"> Evening Drop Off: Decreased from 31 violations in 8/15 - 8/16 test to 20 violations in 9/11 - 9/12 test. Peak Load: Decreased from 34 violations in 8/11 test to 2 in 9/6 test. The primary functional issue needing resolution is the start-up and shut-down of units. SPP believes this can be addressed through procedures being discussed at the 9/14 MITF meeting. 5 more tests are planned; 3 prior to the FERC certification date. Multiple tests of the Curtailment and Adjustment Tool were completed. During the 9/6 test, SPP identified 3 necessary fixes to CAT that were implemented in time for the 9/11 test. We will continue testing in this area. Processes have been modified based on these tests. Additional tests include: Minimum available generation, exceptions (including a Reserve Sharing System event), and transition / reversion. Reference Appendix B for deployment test statistics.
Structured Scenario Tests	Y	<ul style="list-style-type: none"> The MITF decided to move forward into Parallel Operations IV (POPS IV) without closing Structured Scenario Testing (SST). Market Trials will not move beyond POPS IV and SST will not be closed until the reasons behind the failed metrics in SST have been identified and MITF members are comfortable that solutions have been implemented that would address those failures. MITF understands that demonstrating the effectiveness of the solutions may require additional testing.
Settlements	Y	<ul style="list-style-type: none"> Market Participants have had the opportunity to receive every charge type on their settlement statements. 7 of 23 Market Participants returned settlement verification acknowledgement forms for at least one week of Structured Scenario Testing.

Applications and Infrastructure

Area	R/Y/G	Comments
Architecture	Y	<ul style="list-style-type: none"> The standby database is running in production; however, the overall standby implementation is not complete. The next steps include completion of a testing environment and installation of a patch from Oracle. The other issue is the slow processing of the real time cases (5 minute RTBs) during early morning batch processing.
Applications	Y	<ul style="list-style-type: none"> During Structured Scenario Testing (8/28 - 9/6) 2730 of 2785 (98%) planned five-minute cases solved successfully. 3896 of 3974 (98%) of all other types of cases solved successfully. 98.65% of all dispatch instructions were sent successfully 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"> All required market positions have been filled. 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"> • Arkansas Electric Cooperative Corporation • American Electric Power • Calpine Energy Services • Empire District Electric • Entergy Power Ventures • Exelon Generation Company • Golden Spread Electric Cooperative • Grand River Dam Authority • Kansas City Board of Public Utilities • Kansas City Power & Light • Kansas Electric Power Coop • Oklahoma Gas and Electric • Oklahoma Municipal Power Authority • Redbud Energy • Southwestern Public Service Company • Sunflower Electric Cooperative • Aquila Inc • Western Farmers Electric Cooperative • Westar Energy
Market Participants that Do Not Expect to be Ready	R	<ul style="list-style-type: none"> • Coral Power • ONEOK Energy Marketing and Trading
Market Participants Not Responding	Y	<ul style="list-style-type: none"> • Kansas Power Pool

**See Appendix F for specific comments received by Market Participants*

SPP Management Commentary on Market Participant Readiness

Area	R/Y/G	Comments
Market Participant Readiness Summary	Y	<ul style="list-style-type: none"> The Coral Power response reflected a concern about the ability to offer into the market, which Coral does not have since they have not completed the required test. This does not affect the ability to go-live. The ONEOK Energy Marketing and Trading response did not clearly indicate readiness. As they are not able to offer generation into the market, this is not a significant impact. Although neither Coral nor ONEOK are able to offer into the market, both have satisfactorily participated in the deployment tests as self-dispatched generation with the necessary data being submitted. Kansas Power Pool is load only and does not present a significant impact to a November 1 implementation. See Risk I below.

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.
- SPP management will continue to work with MITF to identify opportunities to add deployment tests (beyond those planned).
- SPP will continue to offer staff to visit Market Participants on-site who could benefit from closer attention to their issues as well as extend invitations to Market Participants to send their staff to SPP.
- SPP has organized staff into specific focus groups dedicated to addressing certain areas of market readiness.
- 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.

Status Update

- Additional deployment tests, including CAT scenarios, have been added.
- Significant improvement in recent deployment tests has been observed.
- SPP is addressing open technical issues (standby system, slow-running real-time cases and EMS to ICCP stability).
- There is a metric, identified by the MOTRTF, which SPP does not believe can be passed. See Appendix J for details.

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.
- SPP has organized staff into specific focus groups dedicated to addressing certain operational issues.

Status Update

- ACE issues have declined over the last 2 deployment tests. More experience with constraint management, including CAT, has been gained.
- Market Trials identified an issue with the curtailment process (See Appendix G, II). We are working with the vendor to address.
- Work-arounds identified through the testing efforts have been included as Appendix G.

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 however 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 has been instituted.

Status Update

- One required model change has been identified that can be addressed in the required timeframe.

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.

Status Update

- No update.

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 go-live.

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.

Status Update

- SPP is taking additional releases of the operational systems based on items identified during market trials. At this point, these changes do not impact a November 1 go-live; however, there is not much time for additional releases.

Upcoming Events (next two weeks)

Policy and Regulatory

- Certification due to FERC on 10/2

Market Trials

- 9/11 Deployment Test (Evening Transition)
- 9/13 Deployment Test (CAT / RSS Scenarios)
- 9/18 Deployment Test (Minimum Available Generation)
- 9/20 Deployment Test (CAT Scenario)
- 9/27 Deployment Test (Mock Cutover)
- Parallel Operations IV (9/11 through 9/20)
- Parallel Operations V (9/26 through 10/6)

Applications and Infrastructure

- (Continued) 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	1
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	N/A	1
Kansas City Power & Light	4347	25	X	1
Kansas Power Pool	N/A	0	N/A	7
Oklahoma Gas and Electric	7042	26	X	1
Oklahoma Municipal Power Authority	200	3	X	3
ONEOK Energy Marketing and Trading	336	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	3
Westar Energy	6176	35	X	4
Total	49116	241	237	33

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
9/10/06	Evening Drop Off: 4 Hours <i>9 PM to 1 AM CDT</i>	22,742 MW	9,583 MW	14,345 MW	\$(450.87)	\$24.48	\$57.07	•
9/6/06	CAT Scenario <i>12 noon – 3 PM CDT</i>	23,586 MW	8,915 MW	14,297 MW	\$(67.06)	\$57.39	\$302.76	•
8/30/06	Morning Ramp <i>5 AM – 9 AM CDT</i>	19,879 MW	8,050 MW	10,032 MW	\$(463.06)	\$24.80	\$162.12	•
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

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
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 <i>12 PM to 2 PM CDT</i>	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 <i>12 PM to 1 PM CDT</i>	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.

* 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
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 Metrics	<ul style="list-style-type: none"> Customer Relations has already contacted and will continue to contact Market Participants to retrieve missing materials. Seven Market Participants have not returned any forms and four have partially complied. 	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 Metrics	<ul style="list-style-type: none"> Same as 16.2. 	Y
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 Metrics	<ul style="list-style-type: none"> 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 Metrics	<ul style="list-style-type: none"> Same as 16.2. 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
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 Metrics	• 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 Metrics	• Same as 16.2.	Y
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 Metrics	• Same as 16.2.	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
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 Metrics	<ul style="list-style-type: none"> • Same as 16.2. 	Y
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 Metrics	<ul style="list-style-type: none"> • 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 Metrics	<ul style="list-style-type: none"> • 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 Metrics	<ul style="list-style-type: none"> • This metric is tracked based on the receipt of forms from Market Participants. • Market Participants requested an extension (through the MITF meeting on 9/8) to 9/20 for turning in these forms. • We expect the metric to be passed at that time. 	Y
17.15	Technical Test executed successfully.	Late Release 3 Metrics	<ul style="list-style-type: none"> • This metric has passed for all systems except CAT. We expect that CAT will pass prior to the end of Market Trials. 	Y
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 Metrics	<ul style="list-style-type: none"> • This metric is tracked based on the receipt of forms from Market Participants. • Market Participants requested an extension (through the MITF meeting on 9/8) to 9/20 for turning in these forms. • We expect the metric to be passed at that time. 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
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 Metrics	• Same as 21.10.	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 Metrics	• Same as 21.10.	Y
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 Metrics	• Same as 21.10.	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 Metrics	• Same as 21.10.	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 Metrics	• Same as 21.10.	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
24.16	Infrastructure freeze date milestone met	Late Release 3 Metrics	<ul style="list-style-type: none"> The open items remains the implementation of the standby system, which is addressed separately in this status report. 	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	Failed Release 3 Metric	<ul style="list-style-type: none"> 98.9% solved within this target. SPP is aware of an issue in this area and is working on a fix. 	Y
16.14	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"> Metric failed due to the slow running RTB cases. 	Y
16.16	State Estimator has ninety-seven percent (97%) availability of five (5) minute solutions for the duration of the testing cycle	Failed Release 3 Metric	<ul style="list-style-type: none"> Passed 9 out of 10 days. Note this metric is a tracking metric (meaning informational) for this test cycle, but does become exit criteria for Parallel Operations IV. 	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	Failed Release 3 Metric	<ul style="list-style-type: none"> Passed 8 out of 10 days. Note this metric is a tracking metric (meaning informational) for this test cycle, but does become exit criteria for Parallel Operations IV. 	Y
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	Failed Release 3 Metric	<ul style="list-style-type: none"> Short term load forecast did not pass any days; Mid term load forecast passed 3 out of 10 days. See Appendix J. Note this metric is a tracking metric (meaning informational) for this test cycle, but does become exit criteria for Parallel Operations IV. 	Y
16.20	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	<ul style="list-style-type: none"> Failed due to a planned outage. Metric was passed during times not including the planned outage. Note this metric is a tracking metric (meaning informational) for this test cycle, but does become exit criteria for Parallel Operations IV. 	Y
16.21	Market Flow Calculations successful ninety-seven percent (97%) of fifteen (15) minute solutions for the duration of the testing cycle	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 16.20. 	Y

Metric Reference	Readiness Metric	Status	Management Response	Risk
16.22	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	<ul style="list-style-type: none"> This metric will always fail non-deployment test scenarios as CAT is not one other than during deployment tests. 	Y
17.1	MITF approval of Market Trials Structured Scenario Testing	Failed Release 3 Metric	<ul style="list-style-type: none"> The MITF voted to leave this cycle open until the issues with the metrics are better understood. The project continued moving forward. 	Y
18.30	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 8/30 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> There were 40 CPS2 violations during this test. This metric has been passed in a prior test cycle and is also tracked in future cycles. We will not be concerned if in future tests, the number of violations drop back in-line. 	Y
18.31	No single Control Area can exceed 2 CPS2 violations for the duration of the 8/30 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 18.30. 	Y
18.41	No single Control Area can exceed 3 CPS2 violations for the duration of the 9/12 deployment testing period	Failed Release 3 Metric	<ul style="list-style-type: none"> Nine balancing authorities passed, one failed and one has not responded. An approach to address the issues causing the failure is being presented to the MITF on 9/14. 	Y
21.11	Initial, Final, and Resettlement Statements are validated and posted for each Operating Day of the Structured Scenario testing cycle	Failed Release 3 Metric	<ul style="list-style-type: none"> Statements for posted for all but two Market Participants. This issue is being investigated and is anticipated to be resolved. 	Y
21.12	Invoices that contain all Settlement Statements from the testing cycle are published during the Structured Scenario testing cycle	Failed Release 3 Metric	<ul style="list-style-type: none"> Same as 21.11. 	Y

Appendix D: Metrics Due in Next 2 Weeks (Sept. 14th thru Sept. 27th)

Reference Number	Type	Readiness Metric	Comments	Target	Actual
14.15	Exit	SPP submits written response to NERC addressing the concerns identified in the initial NERC verification team report.		9/20/2006	
14.18	Exit	Market Participant Certification due to SPP		9/25/2006	
17. Parallel Operations IV - Release 3 (9/11 - 9/20)					
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		
17.17	Exit	FERC Reports Completed	The reports required by FERC are completed by the Market Monitoring Group	9/16/2006	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
18. Deployment Testing (5/9 - 9/14)					
9/18 Deployment Test					
18.43	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 9/18 deployment test duration			
18.44	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/18 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.45	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/18 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.46	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					
18.47	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			
18.48	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%)		
18.49	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%)		
18.50	Exit	Market transition and reversion plan successfully executed			
18.51	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					
18.52	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			
18.53	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%)		
18.54	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%)		
18.55	Exit	Market transition and reversion plan successfully executed			
18.56	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.			
9/6, 9/12, 9/18, 9/20, 9/27 Deployment Tests					
18.57	Exit	Approval of completion of 9/6, 9/12, 9/18, 9/20, and 9/27 Deployment Tests based upon Market Trials Success Criteria			
18.58	Exit	MITF approves closure of 9/6, 9/12, 9/18, 9/20, and 9/27 Deployment Tests and submits motion to MWG			
19. Parallel Operations Days (6/7 - 10/16)					
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	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
21. Settlements - Release 3 (7/31 - 10/19)					
Structured Scenario Testing - Release 3					
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	
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	
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		

Appendix E: Market Operations System Outage Status Update

Problem

At approx 8:30 pm on Saturday August 19, physical files on the production Market database were mistakenly deleted, causing the database to crash. SPP employs two architecture items to reduce the risk or outage associated with this type of failure (a production standby database and database backups); however, neither was available at the time of the crash due to the following reasons:

- **Production Standby Database.** As previously reported through the metrics, the standby system implementation was delayed. At the time of the production database crash, the standby system was in the final phase of implementation; however, database corruption had occurred which made the standby system unavailable.
- **Regular Backups of the Primary Production Database.** SPP performs daily full backups of the MOS primary production database, along with incremental backups throughout the day, to recover the database to a specific point in time if both the primary and standby databases become unavailable. Upon attempting to restore the database after the crash, the backups failed due to some form of corruption.

Status

The following courses of action are being pursued:

1. **Determine root cause and implement changes to mitigate recurrence.** The Oracle DBA Team has reviewed the issue with the application vendor and Oracle. At this time, the team is determining whether or not it is possible to recreate the problem. There is a known bug within Oracle that is a possible root cause of the corruption that prevented synchronization with the standby system and also prevented recovery from the backups. The team is working with Oracle to better understand this issue, along with any others that may have contributed to the problem.
2. **Modify the test environment architecture to more closely match the production environment.** The project is building a standby database in the testing environment so that the environment more closely mimics production. This will allow the project to perform more extensive testing of the standby configuration and failover processes.
3. **Modify existing procedures to catch similar issues earlier.** The project is also building a separate server to allow weekly testing of the restore process. This will help to prevent SPP from encountering the failed backup problem that exacerbated the recent outage. In addition, the team is working with Oracle to determine additional procedures that can be put in place to prevent similar issues from occurring, such as more extensive database monitoring. Last, the team is working with Oracle to determine emergency procedures that should be put in place in the event that corruption is detected in the database in the future.
4. **Complete the build out of the production standby database.** At this time, the standby database has been rebuilt in the production environment. Data is successfully being synchronized from the primary database to the standby database; however, additional configuration and testing is required before it can be used in a failover scenario.

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	
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.
Coral Power	Coral is not capable of participation until after certification with a deployment test when market conditions warrant dispatch into the SPP market.
Empire District Electric	We are not yet ready but we do expect to be ready for Market Go-Live.
Entergy Power Ventures	
Exelon Generation Company	Rj, sent this in to Sharon about a week or so ago time ago and we have not changed our status. Thanks.
Grand River Dam Authority	The status for GRDA is still (Y) yellow. We are expected to be ready to GO Live November 1. GRDA has been working with SPP to resolve issues to correctly account for our pump storage load. We believe we have a solution that will be tested on the 11th and 12th deployment test. Our only other issue is testing our settlement statement procedure. Our meter submission still has not been completed to be able to complete our settlement statement comparison
Golden Spread Electric Cooperative	1) GSEC is concerned with the lack of settlement on modifications to an existing agreement, which may be in conflict with the EIS market. 2) GSEC is concerned not only with SPP's readiness, but GSEC's as well due to its inability to participate in the Market Trials Deployment exercises. This inability is due to unresolved terms of participation with the parties to the current agreement.
Kansas City Board of Public Utilities	BPU is working hard to be ready for the start of the Market however, our interface with the Market from our vendor has been pushed back to the last week of September. Training will be very limited before the Market starts due to this.
Kansas Electric Power Coop	
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	

Oklahoma Gas and Electric	OG&E expects to be ready for go live by 11/1.
Oklahoma Municipal Power Authority	Expected to be ready to go live
ONEOK Energy Marketing and Trading	At the current time I would have to respond that ONEOK is NOT READY to "go-live".
Redbud Energy	We still anticipate being ready to go live by beginning of the EIS Market.
Sunflower Electric Power Corporation	We are not completely satisfied that our software applications and knowledge are up to the standards necessary to participate effectively in the market, but we feel we are getting closer with every deployment test.
Southwestern Public Service Company	Please show our status as yellow, with the following comments (see 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	New SR to be submitted based on SST; WFEC BA not able to see MP data within our CA.
Westar Energy	<p>We are still struggling with the variance on SPP vs our load forecast, believe it will be resolved by market Go-Live</p> <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) CAT process doesn't communicate to BA enough information to respond – there has to be a reason communicated to the BA that schedules are going to be changed. 3) With the recent collapse of the SPP MOS systems, WR has concerns about the ability for SPP to fully recover their systems.

American Electric Power

AEP has the following concerns related to Market Readiness:

- i) A disconnect continues to exist with Market Schedule curtailments and the fact some schedule changes are not reflected via an API. Although AEP did not experience it directly, AEP understands that during the 9/6 deployment test that tags submitted through the e-tagging systems were updated and curtailment messages were delivered as expected. However during the 9/6 deployment test AEP experienced a curtailment of a schedule submitted through the NLS system. The real-time indication for the schedule curtailment was only available through a messaging view in the RTOS System. This required AEP staff manually interpret and react to the NLS schedule curtailments. In addition the SPP system did not automatically reinstate the curtailed schedule after the curtailment event ended. From the 9/6 experience AEP has confirmed the proposed manual work arounds will require additional staff effort in the areas of real time market operations, and settlements to manage the schedule adjustments.

AEP continues to contend SPP needs to automate the curtailments and have the schedule changes be reflected on the E-Tag through existing systems and/or using an Automatic Program interface. Absent the above changes, AEP may be unable to respond quickly to schedule changes thus leading to an exposure to imbalance cost and under scheduling charges which were not anticipated and may be in excess of its own fuel costs. While this reflects AEP's current experience and understanding, we also understand the RTOSS and CAT vendors are working with the SPP staff for alternate solutions which may become available prior to the board meeting.

- ii) It is unclear how MP's BA's and CA's should interpret the information from the Day Ahead Deliverability Analysis. At this time AEP has only reviewed the results of one study and the content and required action remain unclear.
- iii) The 9/6 deployment test was much more structured test than past tests and AEP observed a reduction in LIP volatility and no CPS2 violations. However, SPP continues to fail the metric associated with the short-term load forecast. What steps are being taken to increase the accuracy of the short-term forecast? SPP also needs to provide MP's with more details on the metric? Load forecasting error has a direct impact on the regulation burden of the Balancing Authorities. If the error level with the short-term load forecast is not reduced AEP may be required to maintain additional amounts of regulation. Such actions result in either higher cost, due to additional regulation capability being made available on line, or lower EIS benefits, due to the need to reduce the dispatchable range of units being offered for SPP dispatch.
- iv) When does SPP plan to implement the 4-second RTOSS NSI into production? SPP has communicated a start date on multiple occasions, most recently the date of the last board update, but subsequently the date has shifted.

Southwestern Public Service Company

SPS Comments:

We have witnessed dramatic improvement in deployment tests since the last update conference call, and are therefore more optimistic than we were September 1 that SPP systems will be ready to support a November 1 market start. In addition, we have preliminary indications from the settlements review task force that SPP's settlements systems appear to be in good order. We believe it is important to gain more experience with CAT curtailments and the associated pricing impacts. In addition, we remain concerned about volatility in pricing. In particular during the 9/11 test, we saw LIPs drop to \$-600/MWh for one interval, resulting in negative LIPs for the entire hour to our overall footprint. SPP needs to explain the reasons behind this volatility and the potential implications for the market, and any identified problems need to be resolved before market start. In addition, we remain unclear about how SPP is using load biasing and penalty factors to manage the system. Further, SPP has not provided an adequate explanation of why these tools are not referenced in SPP's tariff. From SPS' standpoint, we are continuing to refine our systems and to work on internal training efforts. From an internal perspective we believe that we will be ready for market start on November 1 but we note that we have some reliability concerns that we would like to address with SPP.

Appendix G: Workarounds for a November 1 Implementation

Summary

As requested by the SPP Board of Directors, below are the operational issues that have work-arounds for a November 1 go-live date.

I. Treatment of Recallable Reserves for One Specific Balancing Authority

A single Balancing Authority sells energy in contracts that can be cancelled if the same energy is required for reserves. In order to accommodate this particular Balancing Authorities practice, schedules need to be down-adjusted while still maintaining the current deployment levels. The Market design does not currently support this functionality so SPP is working with the Balancing Authority to develop a mechanism to handle this situation. It is not anticipated that any system or Market design changes will be made prior to November 1 in support of this item.


II. Tag Adjustments during a Curtailment Event

When a schedule with a tag is curtailed, the quantities on the schedule are adjusted but the quantities on the associated tag are not. Although the functionality was designed, Market Participants have raised concerns with this approach during Market Trials. Therefore, SPP is working with the associated vendor to determine if tag quantities can also be modified during curtailment events (from CAT). In the interim, SPP posts curtailment information on the OASIS and contacts Balancing Authorities directly and asks them to adjust the tag quantities to match the curtailed schedule. SPP is awaiting a vendor estimate to confirm the ability to complete the change necessary to terminate this work-around prior to November 1 go-live.

III. Ability to Provide Economic Max / Min

The system supports one set of maximum and minimum operating parameters for generation, which are expected to be set based on actual operating capabilities. However, there are circumstances where a Market Participant may want to operate in a tighter bandwidth due to economic reasons. The Market design does not currently support this functionality so SPP has recommended that the regulation reserves (up reg and down reg) be used to further narrow this bandwidth when required.

Appendix H: Deployment Test Observations*

 **SOUTHWEST POWER POOL**

8/30 Deployment Test Observations

- ❖ **MPs followed dispatch instructions more closely**
- ❖ **Some MPs carried very little regulation (some as low as 1%)**
- ❖ **A number of MPs have XML Listener Issues**
- ❖ **Clarification of “Exclude” feature in NLS**
- ❖ **Reminder - Market Operator Overrides lock out MPs from updating data**
- ❖ **Dynamic schedule discrepancies estimated versus actual flow**

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** Slides provided are from materials reviewed by the MITF*

8/30 Deployment Test Observations

- ❖ **Test schedules remained from production restoration effort (resolved)**
- ❖ **Manual Status did not work as expected (expected to be resolved by next test)**
- ❖ **MOS jobs remained queued for several intervals before the start of the test (under investigation)**
- ❖ **One BA reported a difference between 1-minute and 4-second NSI values for a portion of the test (under investigation)**
- ❖ **Simulated TLR/CAT action not completed due to technical issues (under investigation)**
- ❖ **Two BAs reported significant differences between STLF and actual load values (under investigation)**
- ❖ **ACE volatility remained an concern (under investigation – request for data)**
- ❖ **EI NSI transmitted via ICCP to one BA was double expected value for one interval (under investigation)**

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9/6 Deployment Test Observations

- ❖ **MPs followed dispatch instructions very closely**
- ❖ **MPs are reminded that URS/DRS amounts should be achievable within a reasonable response time based on ramp rates (e.g. 5 minutes)**
- ❖ **A number of MPs have XML Listener Issues – SPP will be contacting MPs individually starting next week**
- ❖ **A number of MPs did not submit consistent market data for the hour prior to and the hour after the test**
- ❖ **MPs are expected to follow deployment instructions during curtailment exercises**
- ❖ **CAT improperly set a flag for some NLS, causing the schedules to not be reloaded automatically at the termination of the event. A fix will be implemented by the next deployment test**
- ❖ **Market Data should be consistently submitted using real information and updated in real time**

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Appendix I: Metrics Task Force Results

Summary

The Metrics Task Force results were due on September 13. The summary of information received to date is below.

Area	Comments
Settlements	<ul style="list-style-type: none"> Market Metrics Settlements Task Force passed eight and conditionally passed a ninth out of ten metrics. Tenth metric can not pass until more settlement verification acknowledgement forms are received.
Load Forecasting	<ul style="list-style-type: none"> Information not yet available.
Business Continuity	<ul style="list-style-type: none"> Information not yet available.
CAT Deliverability	<ul style="list-style-type: none"> Information not yet available.
Deployment Tests	<ul style="list-style-type: none"> Information not yet available.
LIP Calculation	<ul style="list-style-type: none"> Information not yet available.

Appendix J: Metrics Issues

Metric

Short Term Load Forecast solves 97% of the time with high accuracy (+/- 1% of integrated raw ICCP measurements) for at least one week. Mid-Term Load Forecast solves 95% of the time with high accuracy (+/- 3% of integrated raw ICCP measurements) for at least one week. State Estimator calculated load solves 95% of the time with high accuracy (+/- 3% of raw ICCP measurements).

Management Response

SPP management does not believe that this metric is achievable due to the fact that it is not weighted by Control Area Capacity of Load, thus allowing smaller Control Areas to bias the results of the Short Term Load Forecast. As an example, the following table outlines the results of the metric as defined vs. the metric as proposed utilizing a weighted capacity by Control Area during the Structured Scenario Testing phase from August 31 - September 6:

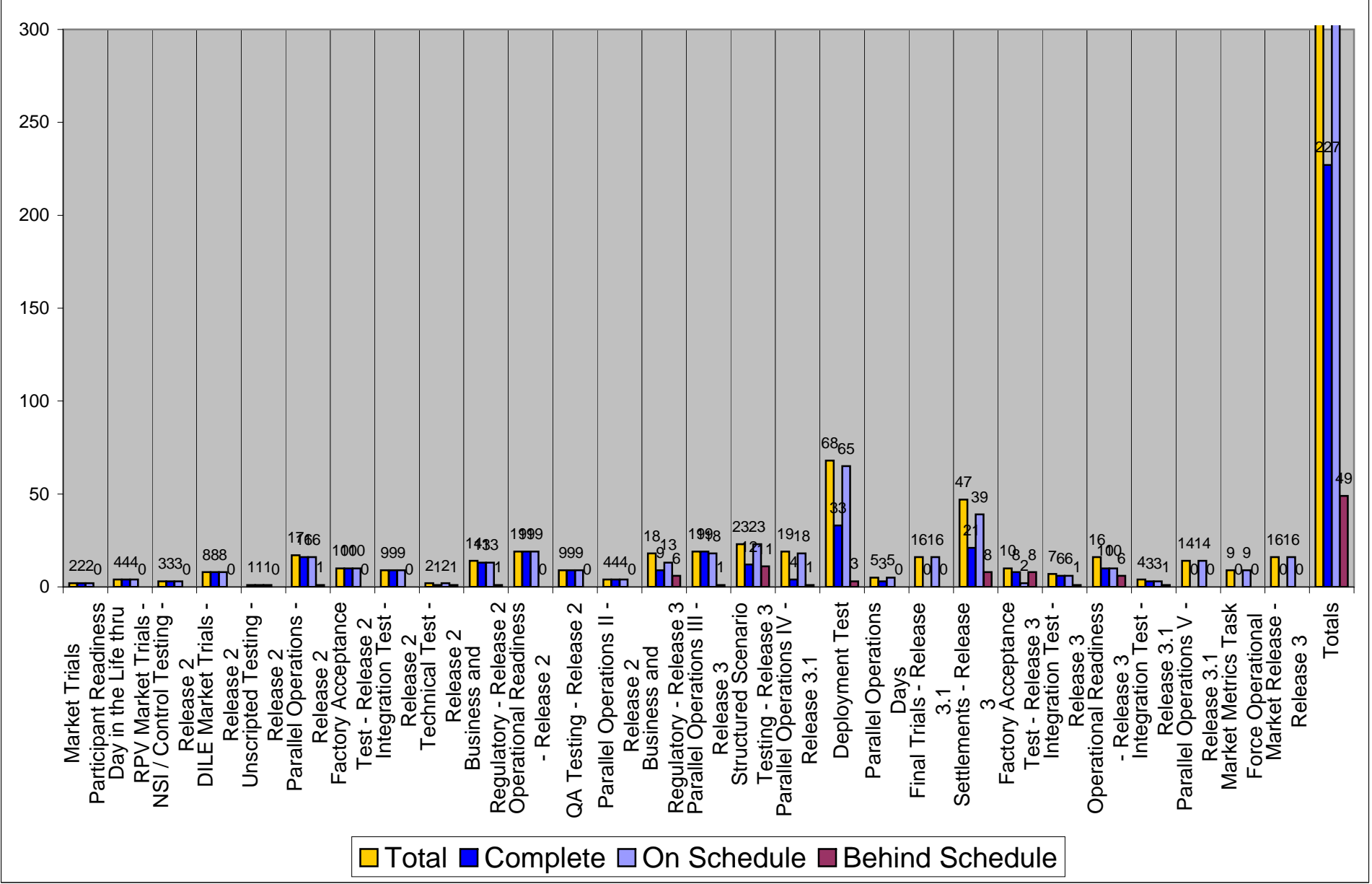
SHORT TERM LOAD FORECAST								
Control Area	CURRENT				PROPOSED			
	STLF Cases	STLF Cases Passing	% Passing	Pass / Fail	Load Weighted % Passing	Pass / Fail		
American Electric Power	2880	2319	80.5%	Fail				
Empire District Electric	2880	2510	87.1%	Fail				
Grand River Dam Authority	2880	2251	78.2%	Fail				
Kansas City Board of Public Utilities	2880	1890	65.6%	Fail				
Kansas City Power & Light	2880	2533	88.0%	Fail				
Oklahoma Gas and Electric	2880	2267	78.7%	Fail				
Sunflower Electric Power Corporation	2880	2473	85.9%	Fail				
Southwestern Public Service Company	2880	2709	94.1%	Fail				
Western Farmers Electric Cooperative	2880	2406	83.5%	Fail				
Aquila Inc	2880	2234	77.6%	Fail				
Westar Energy	2880	2542	88.3%	Fail				
TOTAL:	31,680	26,134	82.5%	Fail			91.1%	Fail*

** Load weighting increases % passing by 8.6%. With continued refinement of the forecasting procedures over the coming weeks, in addition to load weighting, we believe we may be able to hit the target.*

Action to be Taken

- Ask the MOTRTF to reconsider the appropriateness of the target.

Reference Number	Phase	Total	Complete	On Schedule	Behind Schedule	Target Date	Expected Date	Comments Regarding Metrics Behind Schedule
1	Market Trials Participant Readiness							
1	ICCP/XML Connectivity - Release 2	2	2	2	0	9/30/2005	9/30/2005	
2	Day in the Life thru RPV Market Trials - Release 2	4	4	4	0	12/2/2005	12/2/2005	
3	NSI / Control Testing - Release 2	3	3	3	0	12/22/2005	12/22/2005	
4	DILE Market Trials - Release 2	8	8	8	0	2/10/2006	2/10/2006	
5	Unscripted Testing - Release 2	1	1	1	0	3/3/2006	3/3/2006	
6	Parallel Operations - 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	Factory Acceptance Test - Release 2	10	10	10	0	11/11/2005	11/11/2005	
8	Integration Test - Release 2	9	9	9	0	1/13/2006	1/13/2006	
9	Technical 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	Business and Regulatory - 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	Operational Readiness - Release 2	19	19	19	0	5/15/2006	5/15/2006	
12	QA Testing - Release 2	9	9	9	0	3/17/2006	3/17/2006	
13	Parallel Operations II - Release 2	4	4	4	0	5/5/2006	5/5/2006	
14	Business and Regulatory - Release 3	18	9	13	6	8/4/2006	9/1/2006	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 8/16 were filed on 9/1. The 8/16 date was incorrectly reflected in the project plan and should have been set to 9/1..
15	Parallel Operations III - Release 3	19	19	18	1	6/15/2006*	9/1/2006	The market trials approach was approved during the 9/1/2006 MITF Meeting.
16	Structured Scenario Testing - Release 3	23	12	23	11	9/1/2006	9/20/2006	Structured Scenario Testing began 1 week late. The schedule was adjusted to reflect this. In regards to the participation metrics, participants during the MITF meeting requested to return completed verification forms by 9/20
17	Parallel Operations IV - Release 3.1	19	4	18	1	9/20/2006	9/20/2006	Dates of Parallel Operations IV were moved from 9/5 - 9/15 to 9/11 - 9/20. In regards to 24X7, CAT monitoring was just enabled to allow measurement of 24X7 stability.
18	Deployment Test	68	33	65	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	Parallel Operations Days	5	3	5	0	10/16/2006	10/16/2006	
20	Final Trials - Release 3.1	16	0	16	0	9/14/2006	9/14/2006	
21	Settlements - Release 3	47	21	39	8	10/19/2006	10/19/2006	The metrics marked as late will be completed once settlement verification forms are submitted. This is expected by 9/20
22	Factory Acceptance Test - Release 3	10	8	2	8	6/9/2006	9/22/2006*	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 9/22 but this is only required for internal monitoring needed for market start.
23	Integration Test - Release 3	7	6	6	1	7/21/2006	TBD	1 High/ Critical SIR remains open
24	Operational Readiness - 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	Integration Test - Release 3.1	4	3	3	1	8/17/2006	TBD	Around 50 High/ Critical SIRs remain open, some of which are scheduled for Market Launch
26	Parallel Operations V - Release 3.1	14	0	14	0	10/6/2006	10/6/2006	
27	Market Metrics Task Force Operational Metrics	9	0	9	0	9/13/2006	9/13/2006	
28	Market Release - Release 3	16	0	16	0	11/1/2006	11/1/2006	
Totals		393	227	357	49			



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	Complete - 9/1/2006
14.5	Exit	Independent Metrics Filed with FERC	The Independent Metrics are to be filed with FERC prior to 8/31	8/16/2006	Complete - 9/1/2006
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	Complete - 9/1/2006
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	Complete - 9/1/2006
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 NERC 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	Complete - 9/1/2006
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	Approved during 9/1/2006 MITF Meeting	6/15/2006	Complete - 9/1/2006
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	The following measurement failed: State Estimator solves 90% 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	
15.13	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		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	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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		72.8%
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		48.2% out of 94% = 51.3%
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		69.2% out of 86% = 80.5%
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		44.5% out of 86% = 51.7%
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		49.1%
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		33.3%
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		In Progress
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		46.1% out of 86% = 53.6%
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		71.7%
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		50.7%
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		Passed - 97.52%
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		Failed - 98.90%
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		Failed - 4 missed RTBs from 04:20-04:45 on
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		Passed
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		Failed on 9/5 (93.4%)
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		Failed on 9/5 and 9/6
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		Failed - Based off of periods solved

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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	Passed	
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	Only failed on those days where there was a Planned Update	
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	Only failed on those days where there was a Planned Update	
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	In Progress	
17. Parallel Operations IV - Release 3 (9/11 - 9/20)					
17.1	Entry	MITF approval of Market Trials Structured Scenario Testing	The MITF decides to move forward into Parallel Operations IV (POPS IV) without closing Structured Scenario Testing (SST). Market Trials will not move beyond POPS IV and SST will not be closed until the reasons behind the failed metrics in SST have been identified and MITF members are comfortable that solutions have been implemented that would address those failures. MITF understands that demonstrating the effectiveness of the solutions may require additional testing.	Failed	
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	-9/21/2006 Stability of all but CAT has been completed successfully
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	9/7/2006
17.19	Entry	All Market Settlement Functionality is Tested	Due Date moved from 9/1 to 9/7	9/7/2006	9/7/2006

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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	
18.6	Exit	The Market Metrics Deployment Task Force renders an opinion that NS 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 associated with CPS2. 	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	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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	
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		Passed	
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%)	Failed - 40 Total	
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%)	Failed - HE 7, 8, 9	
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.		Passed	
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	
9/6 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 9/6 deployment test duration		Passed	
18.36	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/6 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)	Passed	
18.37	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/6 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)	Passed	
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.		Passed	
9/12 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 9/12 deployment test duration		Passed	
18.40	Exit	No more than 27 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/12 deployment testing period	Based on 4 hour test and 11 Market Control Areas (11 CAs * 4 hours * 6 intervals per hour * 10%)	Passed	
18.41	Exit	No single Control Area can exceed 3 CPS2 violations for the duration of the 9/12 deployment testing period	Based on 4 hour test (4 hours * 6 intervals per hour * 10%)	Failed - 1 CA with 9 CPS2 violations	
18.42	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.		N/A	
9/18 Deployment Test					
18.43	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 9/18 deployment test duration			
18.44	Exit	No more than 18 CPS2 violations across all Market Footprint Control Areas for the duration of the 9/18 deployment testing period	Based on 3 hour test and 10 Market Control Areas (10 CAs * 3 hours * 6 intervals per hour * 10%)		
18.45	Exit	No single Control Area can exceed 2 CPS2 violations for the duration of the 9/18 deployment testing period	Based on 3 hour test (3 hours * 6 intervals per hour * 10%)		
18.46	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
9/20 Deployment Test					
18.47	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			
18.48	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%)		
18.49	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%)		
18.50	Exit	Market transition and reversion plan successfully executed			
18.51	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					
18.52	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			
18.53	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%)		
18.54	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%)		
18.55	Exit	Market transition and reversion plan successfully executed			
18.56	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.			
9/6, 9/12, 9/18, 9/20, 9/27 Deployment Tests					
18.57	Exit	Approval of completion of 9/6, 9/12, 9/18, 9/20, and 9/27 Deployment Tests based upon Market Trials Success Criteria			
18.58	Exit	MITF approves closure of 9/6, 9/12, 9/18, 9/20, and 9/27 Deployment Tests and submits motion to MWG			
10/4 Deployment Test					
18.59	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			
18.60	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%)		
18.61	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%)		
18.62	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					
18.63	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			
18.64	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%)		
18.65	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%)		
18.66	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					
18.67	Exit	Approval of completion of 10/4 and 10/11 Deployment Tests based upon Market Trials Success Criteria			
18.68	Exit	MITF approves closure of 10/4 and 10/11 Deployment Tests and submits motion to MWG			

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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	
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






Reference Number	Type	Readiness Metric	Comments	Target	Actual
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	Passed
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	Passed
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	Passed
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	Two MPs had no settlement statements posted for the duration of the test cycle
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	Two MPs had no invoices posted for the duration of the test cycle
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	
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	

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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	Pending receipt of completed forms for W/E 9/8 Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	In Progress
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
21.29	Exit	The Market Metrics Settlements Task Force renders an opinion that calibrated meter data is accurate	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
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	Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	Passed
21.34	Exit	The Market Metrics Settlements Task Force renders an opinion that all adjustments on the payout report are properly allocated	Passed using test scenarios. True test will not occur until market start when actual funds collected and dispersed. Results per Settlements Task Force Report posted for 9/14 MITF Meeting	9/13/2006	In Progress
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 9/22		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).	GRDA and Western Farmers have not reviewed.	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 MOTRTF, 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	~50 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			

Reference Number	Type	Readiness Metric	Comments	Target	Actual
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 ±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	

Legend (Phases)	
	Not Started
	On Track / Complete
	Minimal Risk
	High Risk
	Closed