

IS Integration Go-Live Go / No-Go Recommendation

August 14, 2015

Revision History

Version Number	Date	Author	Change Description
1.0	7/31/15	Project Manager	Initial Version
1.1	TBD	Project Manager	Updated with input from CWG and ORWG

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Executive Summary

This report contains the final Go/No-Go recommendation from the SPP IS Integration project, plus input from the Change Working Group (CWG) and the Operating Reliability Working Group (ORWG) for the October 1, 2015 IS Integration Go-Live. SPP's recommendation is based on the analysis provided by SPP in the Go/No-Go Assessment on August 14, 2015 and the condition that the following critical activities are completed prior to Go-Live:

- BA Certification (due September 1st)

The IS Integration Project, the CWG and the ORWG have provided the following input:

IS Integration Project:	Move forward with IS Integration Go-Live on October 1, 2015
Change Working Group:	Pending (See page 5)
Operating Reliability Working Group	Pending (See page 5)

Criteria Status

The following table contains the status of the Go-Live Go/No-Go Criteria as of August 14, 2015:

ID	Criteria	Status
GL-01	The new entities with ninety-two percent of load in the expanded footprint are ready for the Balancing Authority Transition.	Complete
GL-02	Integrated Deployment Testing is complete	Tracking on Time
GL-03	Performance Testing stage exit criteria is met	Complete
GL-04	All IS Integration code changes have been installed and integrated in Marketplace Production	Tracking on time
GL-05	The SPP IS Integration Go-Live Plan is approved internally	Tracking on Time
GL-06	All systems have the latest Commercial/ Network Model	Tracking on Time
GL-07	SPP Staff is ready to support Go-Live	Complete
GL-08	Completion of any critical metrics	Complete

SPP Recommendation

Based on the Go-Live criteria, the SPP recommendation is that the IS Integration project implements as planned on October 1, 2015. While not all criteria have been met and there are still activities that need to be completed prior to Go-Live, moving forward provides SPP and Market Participants (MPs) with more benefits than a decision to delay.

The project team and Market Participants have worked tirelessly to complete the requirements of the IS Integration project to achieve the increased operations and economic benefits it provides. While there are outstanding items to close between now and October 1, SPP has a high level of confidence it will complete the few remaining required activities for a successful launch.

Outstanding critical item that needs to be resolved prior to Go-Live:

- BA Certification (due September 1st)

SPP believes that the above activity will be complete prior to Go-Live. All other previously identified critical activities have been completed.

CWG and ORWG Input

The Change Working Group (CWG) and Operating Reliability Working Group (ORWG) will review this document and the implementation plan and provide feedback during late August and early September.

Accomplished Criteria

The following criteria have been met as of the publishing date of this report.

ID	Criteria
GL-01	The new entities with ninety-two percent of load in the expanded footprint are ready for the Balancing Authority Transition.
GL-03	Performance Testing stage exit criteria is met
GL-07	SPP Staff is ready to support Go-Live
GL-08	Completion of any approved critical metrics

Criteria Tracking On Time

The following criteria are in progress as of the publishing date of this report. They are scheduled to be complete prior to Go-Live and are tracking on time.

ID	Criteria
GL-02	Integrated Deployment Testing is complete
GL-04	All IS Integration code changes have been installed and integrated in Marketplace Production
GL-05	The SPP IS Integration Go-Live Plan is approved internally
GL-06	All systems have the latest Commercial/ Network Model

IS Special Situations

The following special situations have been considered during the IS Integration project:

- Federal Service Exemption (FSE) and Self-providing 4% losses
- FSE and BSS schedules and the impacts on Day Ahead and Real Time
- Modeling of FSE Transfer Point and Handling SPP-WAPA Interface in Commercial and TCR Model
- Co-supplied load and the impacts on Modeling and State Estimator
- Tri-state Load
- Unmetered Load situations
- MDU embedded inside WAUE
- Tie line metering that does not meet quality revenue standards
- DC Ties Coal Creek – Dickinson
- DC Tie Square Butte – Arrowhead
- Pseudo-tied out situations
- Emergency ties
- All windfarms in IS are NDVER
- How WAPA Hydros will operate in Market
- Shared owned resources with MISO
- Net-Zero interconnection agreement
- TSP function for West
- Fort Peck switchable load (High Line)
- Providing Ancillary Service from East to West
- JOA Agreement SASK
- Phase shifter with Canada

These special situations with the expanded footprint are documented, and our staff trained to understand and handle when needed. A series of training events are being held August-September, 2015, with Operations Engineering.

Appendix

Integrated Deployment Test/ Regulation Qualification Success

The Integrated Deployment Tests were designed to demonstrate Real-Time Market Operations that result in SPP control of registered Resources across the Market Footprint. SPP ran the Integrated Marketplace with newly registered project-specific Resources responding to deployment instructions from the SPP Integrated Marketplace EMS system.

We have successfully completed 2 deployment tests for 23 resources, which is 77 percent of capacity for resources that are dispatchable. Twenty-two resources have fulfilled the requirements to become Regulation Qualified.

We are currently testing the remaining resources that were unavailable during Market Trials.

Prior to Market Trials

Connectivity Testing

SPP tested MPs abilities to use the Markets User Interface, TCR User Interface, and Settlements portal and ability to access Settlements reports. MPs used multiple Markets and Settlements APIs. Also tested was market and settlement listener set up.

Market Trials

Daily

MPs submitted on a daily basis into the Day Ahead Market. We ran Day Ahead and Intraday RUC and the Real-Time Balancing Market. Settlements inputs were of meter data and bilateral settlement schedules (BSS). In addition, MPs submitted outage information through CROW, as well as submitted tags and TSRs.

There was excellent participation throughout the Trials timeframe. MPs performed Settlement document validation of statements, invoices (initial and final), plus various Settlement reports.

Scheduled Scenarios

In addition to daily input, MPs participated in several scheduled test scenarios:

- Day Ahead Mitigation
- RUC Mitigation
- RTBM Mitigation
- Out-of-Merit Energy (OOME)
- Contingency Reserve Deployment (CRD)

Post Market Trials

Two test scenarios completed in August.

- Transmission Settlements
- Tagging Scenario