



# PR20120032 Switch Operations Production to ODC Member Impacting Project Overview

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## Version Control

Version	Date	Author	Change Description
1.0	11/07	Homi Waldorf	Original document
1.1	12/11	Homi Waldorf	Updated with additional scope
1.2	12/20	Tennille Tims	Updated with proposed dates of changes
2.0	1/15/2013	Tennille Tims	Updated with date changes
<a href="#">2.1</a>	<a href="#">1/28/2013</a>	<a href="#">Tennille Tims</a>	<a href="#">Updated with date and impact changes</a>

## Document Purpose

This document is used to provide communication regarding member impacting/facing projects to the CWG and membership.

The Project Manager will provide the MIPO, and will suggest an initial review period. The CWG Representative should review the MIPO and provide feedback and response during the comment period. If needed, the CWG Representative may also request MIPO review meeting. All MIPO updates will be redlined and both a clean and a redlined version will be posted in the project folder. The latest MIPO version will have accepted redline changes from the previous version, and any new changes redlined.

File names should follow the following pattern: MIPO\_<PR#\_NAME\_V#.R#> where V# is the version number associated with the touch point, and R# is the release within that touch point.

The CWG and/or project liaisons will be notified when MIPO versions are posted.

## Executive Summary

SPP has planned to execute an Energy Management System (EMS), EIS Market, and Supporting Applications Switchover from the Maumelle data center to the Chenal data center to improve procedures, automation and techniques to support production system high availability. SPP intends to execute this switchover with minimized stakeholder impacts. This initiative is driven by Availability Management as well as the need to utilize the new primary site, as communicated to CWG during the November meeting. This initiative provides for improved maintainability of critical systems which support Reliability and Markets and reduces the risk of DR execution. Further, this initiative will reduce member impacts from future required maintenance and disaster situations. This Planned event is required to prepare SPP's secondary datacenter for the Integrated Marketplace. The 2 phased, series of work will impact internal operations and members beginning the second week of January, 2013. This initiative will necessitate an anticipated outage of the EIS Market for 72 minutes, with a maintenance window of 120 minutes for further verification during Phase I and an estimated EMS system outage of less than 10 minutes with a 30 minute [market hold and](#) maintenance window for Phase II.

This switchover completes the MOS EIS Switchover Initiative identified and communicated to the CWG in 2011.

## Business Impact

**Phase I:** As part of the EIS Market switchover, a market suspension will be necessary prior to initiating the maintenance; market participants will follow normal procedures for a market suspension.

Due to the impact of this maintenance initiative, the following systems will not be available in the primary or secondary (DR) sites for the duration of the suspension:

EIS Market – Market suspension, anticipated outage of the EIS Market for 72 minutes

**Phase II:** During the EMS switchover, members will not receive data but will have the ability to send data via ICCP. The following systems will not be available in primary or secondary (DR) sites for the duration of this event:

Energy Management System (EMS) - ~10 minutes

### User Impacts

**Phase I:** Market Participants – EIS market will be suspended and the Market User Interface (MUI) aka the market portal will be unavailable during the outage window.

**Phase II:** Members – EMS system will not be available during the outage window and members will not be receiving data. [The EIS market will be held for 30 minutes while this work is completed.](#)

The total NSI value (sum of EI and RTOSS) will be "Invalid" due to the loss of the EI NSI values. Dispatch instructions will indicate "Invalid" quality and are not to be used.

### Business Functions Impacted

EMS Operations

Market Operations

## Technical Impact

### Systems/Processes Impacted

Phase I: EIS Market ([portal.spp.org/spp](http://portal.spp.org/spp)) - The Market will be suspended, members will not receive XML notifications, and MPs will need to self-dispatch for the duration of the suspension.

Phase II: EMS - Members will not receive EMS and Market data via ICCP for the duration of the outage. EI NSI will be zeroed for the market suspension, and thus the EI NSI value transmitted via ICCP will be zero. [There is a 30 minute EIS market hold associated with this work.](#)

## Member Requirements

Members are asked to review and evaluate this information for any missed impacts. It is asked that any questions or comments are provided by Monday Jan. 7th, including the request for a deep dive call specific to this effort.

Members will need to verify, and or modify, their XML listener firewalls to ensure that they allow traffic in from SPP's DR XML servers. SPP will assist members who have been identified with a potential issue in this area.

Some members may have not set up a connection to the DR Portal as requested during the data center migration project spring 2012. Be advised that you will not be able to access the production instance of the Portal during or after this planned work until you have a connection to DR. Inability to access the DR Portal web servers will likely be due to firewall rules not being opened to accept traffic from the DR portal IP Address.

Please contact your customer service representative who will provide you with the appropriate IP address needed for your firewall rules. Once that firewall rule has been updated, you can test by performing a telnet test to that IP address.

## Testing

Internal testing in preparation for this maintenance is ongoing. There is not member testing required for this effort.

## Training

N/A for this effort.

## Implementation/Back-out Plan

This maintenance is scheduled to occur during third and fourth weeks of Jan. 2013 and the first week of Feb. 2013. A back-out plan is included in this process. Should it be necessary to back-out, members will be notified of the back-out and contingency plan.

## Summary of Timeline

Please note that Phase I and Phase II dates are now in reverse order with EIS switchover planned for 1/22/2013 and EMS switchover planned for 1/29/2013.

Summary of Timeline Date	Responsible Party	Action
01/7/2013	Project Team	Provide MIPO/Work notification to members
01/11/2013	Members	Complete review, assessment, and provide feedback
01/18/2013	Project Team	Provide confirmation work notification for EIS
01/20/2013	Project Team	Provide confirmation work notification for EMS
01/22/2013	Project Team	Go/no-go call communication EIS
01/22/2013	Project Team	Complete EIS Switch
01/22/2013	Project Team	Provide completion of work notification EIS
01/29/2013	Project Team	Go/no-go call communication EMS
01/29/2013	Project Team	Complete EMS Switch
01/29/2013	Project Team	Provide completion of work notification EMS
1/31/2013	Project Team	Internal application work
2/05/2013	Project Team	Internal application work
2/9/2013	Project Team	Preparation for Network Routing Upgrade in Maumelle

## Assumptions

None at publication date.

## Risks

As with any system maintenance, there are inherent risks of missed or not adequately assessed impacts that may lead to unplanned system downtime. The goal in communicating this maintenance proactively is to lessen that risk. It is asked that our membership review this information for any missed impact and reply with that information at the earliest convenience.

## Additional Documentation

None at publication date.

## Communication Plan

A confirmation work notification for each phase with intent to proceed will be sent one day prior to the implementation date.

There will be a go/no-go call held the morning of the scheduled maintenance for each phase; this call will be attended only by essential SPP staff, and should a no-go be decided at any point, the original work notification will be resent with the intent to reschedule to the alternate date.

As part of the planned switchover exercise a future routine schedule will be set and communicated. A start of work notification will be sent immediately prior to the maintenance beginning.

A completion of work notification will be sent immediately following completion of all maintenance and restoration of full functionality. All project communication and information will be posted to the CWG Project Documentation folder. This MIPO will be updated upon change or with any new information, a redline version posted to the project documentation folder, and the CWG notified.

### Next Steps

None at this time.


### FAQs

Frequently asked questions will be added to the document as identified or necessary.