



MSS 2.4 Member Impacting Project Overview

Table of Contents

Table of Contents 2

Version Control..... 2

Document Purpose..... 2

Executive Summary 4

MPPRR206 4

MPPRR212 4

Additional Defects/Enhancements in this release: 4

Business Impact 5

 Users Impacted 5

 Business Functions Impacted..... 5

Technical Impact 6

 SPP Systems/Processes Impacted 6

 Anticipated Member Systems/Processes Impacted 6

Member Requirements..... 6

Testing 6

Operating and Effective Dates..... 6

Training..... 6

Implementation/Back-out Plan..... 6

Summary of Timeline 6

Project Assumptions..... 7

Risks..... 7

Additional Documentation 7

Communication Plan..... 7

 Liaisons 7

 MIPO and Project Documentation 7

FAQs..... 7

More Information..... 7

Appendix 8

Version Control

Version	Date	Author	Change Description
1.0	1/15/2015	Tennille Tims	Initial Draft
2.0	2/6/2015	Tennille Tims	Adding Requirements and MPPRR Information
3.0	3/12/2015	Tennille Tims	Updating Testing Information
4.0	3/19/2015	Tennille Tims	Adding Operating Days for Effective Dates
5.0	4/9/2015	Tennille Tims	Added descriptions of additional defects/enhancements addressed in this release.
<u>6.0</u>	<u>4/17/2015</u>	<u>Tennille Tims</u>	<u>Updating Operating Days for Effective Dates and Testing Information</u>

Document Purpose

The Project Manager should provide the MIPO with an initial review period. The CWG Representative should review the MIPO and provide feedback and response, including request for a MIPO review meeting, during the comment period.

All MIPO updates will be red-lined. The latest version will have accepted redline from the previous version, and any new changes redlined. The CWG and/or project liaison will be notified of any MIPO change.

Executive Summary

MSS 3.1 is the first Settlements release following Project Pinnacle. It consists of MPRR206 – OOME Repricing and MPRR212 – Over Collected Losses. Note that the previous version of this MIPO reflected this release as MSS 3.1. The SPP Settlements team has recently implemented an improvement in their release versioning standards; therefore, this release has changed from MSS 3.1 to MSS 2.4. Only the release version number has changed. The content of the release remains the same.

MPRR206

MPRR206 corrects the protocols with a revision for the RtOom5minFlg that displays on the billing determinant report when SPP issues a repricing of LMPs. MPRR206 adds the RtRepricing5minFlg to section 4.5.9.9. This flag is needed to initiate the settlement systems to conduct the OOME calculations when SPP recalculates LMPs to determine if the Resource is eligible for compensation according to 7.2.2.5. MPRR206 was passed by MWG on 8/19/2014, by MOPC on 10/14/2014⁴⁵ and can be found at this [link](#).

MPRR212

MPRR212 allows for a design change needed for the allocation for Day-Ahead and Real-Time Over-Collected Losses (OCL). Today's design for the Real-Time OCL puts a large percentage of the allocated charges/credits to the SPP Loss Pool. Hubs, Imports and Exports are included in the SPP Loss Pool. Since the Real-Time OCL is based on deviation between Real-Time Actual minus Day-Ahead Cleared, Real-Time exports receive a larger than normal share of the Real-Time OCL distribution. This MPRR will take the charges/credits in the Day-Ahead OCL and net them together with Real-Time OCL. The netted monies will be distributed on a Real-Time withdrawal basis, where Real-Time withdrawals include metered load, exports, Pseudo-Tie Outs, and Bilateral Settlement Schedules. MPRR212 was passed by MWG on 9/29/2014, and 10/21/2014. It was approved by MOPC on 10/14/2014 and the BOD on 10/28/2014 and can be found at this [link](#).

Additional Defects/Enhancements in this release:

In addition to the implementation of the MPRRs noted above, the following member facing/member impacting defects or enhancements are addressed in this release.

- **#03-1286 & 03-1382 – Cancelled Start-Up Amount Criteria Incorrect** -- RtStartUpElig5minFlg not taking into account eligibility for a cancellation when the breaker was never closed during the commitment period. This fix will correctly set this flag in the case that a resource is eligible for their Real-Time Cancelled Start Amount which is a portion of RUC Make-Whole-Payment. Impact Analysis: 14 operating days back to market start are impacted; results in ~\$35k in additional RUC Make-Whole-Payments.
- **#03-1377 – DisplInstrucMinHrlyFlg / DisplInstrucMaxHrlyFlg not being set correctly in some cases** - The DisplInstrucMinHrlyFlg (DispatchInstrucMaxHrlyFlg), used in the Minimum (Maximum) Limit Deviation and the RUC Self Commit Deviation, both part of the RUC Make-Whole-Payment Distribution Charge Type, is being set incorrectly. Impact Analysis: These 2 flags back to market start may have been set incorrectly in some cases resulting in an increase or decrease in RUC Make-Whole-Payment Distribution. No dollar impact has been determined at this time due to the complexity involved.

The DisplInstrucMinHrlyFlg is supposed to be set to a 'Y' whenever a Resource is dispatched to its minimum limit in the RTBM for one or more dispatch intervals within an hour.

- o For a Resource that is cleared for Regulation Down, that resource cannot be dispatched for energy below its Minimum Regulating Operating Limit plus its cleared RTBM Regulation-Down.
- o The DisplInstrucMinHrlyFlg is currently, incorrectly being set to a 'Y' when a Resource's energy dispatch is less than or equal to its Minimum Regulating Operating Limit plus its Regulation-Down dispatch.

The DisplInstrucMaxHrlyFlg is supposed to be set to a 'Y' whenever a Resource is dispatched to its maximum limit in the RTBM for one or more dispatch intervals within an hour.

- o For a Resource that is cleared for Regulation Up, that resource cannot be dispatched for energy above its Maximum Regulating Operating Limit minus its cleared RTBM Regulation-Up.
 - o The DisplInstrucMaxHrlyFlg is currently, incorrectly being set to a 'Y' when a Resource's energy dispatch is greater than or equal to its Maximum Regulating Operating Limit minus its Regulation-Up dispatch.
- **#03-1441 – DalmpExp5minQty / RtImpExp5minQty not properly integrating MWs for segments < 5 minutes** -- Impact Analysis: 8 operating days back to market start are impacted; results in ~\$1k change in non-asset energy dollars.
 - **#03-1443 - OCL Public Report Changes for MPRR 212** – Changes to the OCL Public Report to align with MPRR 212 implementation noted above.

An appendix with a list of impacted bill determinants is included at the conclusion of document.

Business Impact

Users Impacted

All Market Participants subject to resettlements with impact from repricing and/or over-collected losses are potentially impacted by these changes.

Business Functions Impacted

This change has the potential to impact the following departments across the organization:

Settlements
EADS
Training
Customer Relations

Technical Impact

SPP Systems/Processes Impacted

ETSE and POPS will be updated to facilitate these changes.

Anticipated Member Systems/Processes Impacted

Shadow settlements systems will need to be updated.

Member Requirements

There are no specific requirements for Market Participants.

Testing

- SPP will create and enter test data for all market participants and create scenarios that are relative to the functional changes. Market participants will be able download the settlement results and verify the charge type amounts using their own processes. If you have questions or cannot verify the results please submit an RMS ticket using the Settlement quick pick as soon as possible. SPP is not requiring Market participants to confirm that they have successfully verified the charge type amounts.
- Market Participants will have an opportunity to validate statements for MPRR212 Over Collected Losses. Currently this validation period is planned to span two weeks, beginning ~~April~~ May 12th, 2015 and ending on May ~~25th~~ 12, 2015.

Operating and Effective Dates

- The Initial Settlement for ODs May 25, 2015 forward will include these changes.
- The Final Settlement for ODs April 15, 2015 forward will include these changes.
- Resettlements will be scheduled for ODs March 1, 2014 to April 14, 2015 for MPRR206 OOME Repricing.
- Resettlements will be scheduled for ODs April 1, 2015 to April 14, 2015 for MPRR212 Over Collected Losses. Watch for updates to the Settlement Calendar on the Marketplace Portal.
- These Operating Dates are tentative. The precise dates will be communicated after the updates have been installed to the production environment.

Training

- Training for MPRR212 Over Collected Losses was presented to the SUG on February 12, 2015. The slide deck can be accessed in the CWG project folder [here](#).

Implementation/Back-out Plan

If it is necessary to back out the new functionality, SPP will utilize effective dating to turn off this new functionality.

Summary of Timeline

Date	Responsible Party	Action
5/12/2015	SPP/Member	Testing opens
5/25/2015	SPP/Member	Testing closes
5/28/2015	SPP/Member	Production Implementation

Project Assumptions

TBD

Risks

TBD

Additional Documentation

None at this time.

Communication Plan

Liaisons

There are no liaisons needed for this effort.

MIPO and Project Documentation

All project communication and information will be posted to the SPP Change Working Group Project Documentation folder. <http://www.spp.org/section.asp?group=3400&pageID=27>. This MIPO will be updated with any new information, and according to the Member Project Touch Points and Deliverables. With any update, a redline version is posted to the project documentation folder, and the CWG is notified.

FAQs

These FAQs are added to the RMS Knowledge Base. Frequently asked questions will be added to the document as identified or necessary, as well as adding to the RMS Knowledge Base, located here: https://spprms.issuetrak.com/Kb_ListByCategory.asp

More Information

At any time, Members can ask questions or get more information by completing an RMS ticket using the Settlements Inquiry quick pick option. RMS link: <https://spprms.issuetrak.com/login.asp>. If a new user ID is needed for RMS, click on that link and follow the directions for "Register Now".

Appendix

MPPR206 OOME Repricing Bill Determinants

Bill Determinant	Unit of Measure	Frequency
RtReprice5minFlg	N/A	5-minute
RtOomeIncrEn5minAmt*	\$	5-minute
RtOomeDesiredEn5minAmt*	\$	5-minute
RtOomeDesiredEn5minQty*	MW	5-minute

MPPR 212 Over-Collected Losses Bill Determinants

Bill Determinant	Unit of Measure	Frequency	Definition
RtIncrOclHrlyAmt_h	\$	Hour	<i>Real-Time Incremental Over Collected Losses Amount per Hour</i> – The sum of RtIncrOcl5minAmt_i for the Hour.
RtIncrOcl5minAmt_i	\$	Dispatch Interval	<i>Real-Time Incremental Over Collected Losses Amount per Dispatch Interval</i> – The amount of over/under collection in the RTBM due to marginal losses for the Dispatch Interval.
RtLmp5minPrc_{s, i}	\$/MWh	Dispatch Interval	<i>Real-Time LMP</i> – The value described under Section 4.5.9.1 at Settlement Location <i>s</i> for Dispatch Interval <i>i</i> .
RtMcc5minPrc_{s, i}	\$/MWh	Dispatch Interval	<i>Real-Time Marginal Congestion Component of Real-Time LMP</i> – The Marginal Congestion Component of Real-Time LMP at Settlement Location <i>s</i> for Dispatch Interval <i>i</i> .
RtImpExp5minQty_{a, s, i, t}	MW	Dispatch Interval	<i>Real-Time Interchange Transaction Quantity per AO per Settlement Location per Transaction per Dispatch Interval</i> – The value described under Section 4.5.9.2 for AO <i>a</i> at Settlement Location <i>s</i> in for transaction <i>t</i> for Dispatch Interval <i>i</i> .
RtBillMtr5minQty_{a, s, i}	MW	Dispatch Interval	<i>Real-Time Billing Meter Quantity per AO per Settlement Location per Dispatch Interval</i> - The value described under Section 4.5.9.1 for AO <i>a</i> at Settlement Location <i>s</i> in for Dispatch Interval i .

RtNetInadvertentSpp5minAmt_i	MW\$	Dispatch Interval	<i>Real-Time SPP Net Inadvertent Energy Amount per Dispatch Interval – The value calculated under Section 4.5.12.</i>
RtPseudoTieLossSpp5minAmt_i	\$	Dispatch Interval	<i>Real-Time SPP Total Pseudo-Tie Losses Amount per Dispatch Interval - The total amount for losses on Pseudo-Ties in Dispatch Interval i.</i>
RtPseudoTieLoss5minAmt_{a, source, sink,(s), i}	\$	Dispatch Interval	<i>Real-Time Pseudo-Tie Losses Amount per Asset Owner per source-sink path per Dispatch Interval - The value described under 4.5.9.27 for AO a on path source to sink in Dispatch Interval i. For the purpose of its inclusion in the calculation of the Loss Rebate Factor the sink (s) notation is an indication that value is collected at the sink Settlement Location.</i>

