Settlements and Billing

Configuration Guide: Monthly Rounding Adjustment Allocation

**CC 4999**

 Version 5.10

Table of Contents

1. Purpose of Document 3

2. Introduction 3

2.1 Background 3

2.2 Description 3

3. Charge Code Requirements 3

3.1 Business Rules 3

3.2 Predecessor Charge Codes 4

3.3 Successor Charge Codes 5

3.4 Inputs – External Systems 5

3.5 Inputs - Predecessor Charge Codes or Pre-calculations 5

3.6 CAISO Formula 6

3.7 Outputs 7

4. Charge Code Effective Dates 8

#  Purpose of Document

The purpose of this document is to capture the requirements and design specification for a SaMC Charge Code in one document.

# Introduction

## Background

The Tariff authorizes the CAISO to levy additional charges or make additional payments to Market Participants to accommodate special adjustments with regards to:

* Amounts required to reach an accounting trial balance of zero in the course of the Settlement process in the event that the charges calculated as due from CAISO Debtors are not equal to the payments calculated as due to the CAISO Creditors for the same Trading Day.
* Awards payable by or to the CAISO pursuant to good faith negotiations or CAISO ADR Procedures that the CAISO is not able to allocate to or to collect from a Market Participant or Market Participants in accordance with CAISO Tariff Section 13.5.3.

These charges or payments will be allocated to Scheduling Coordinators pro rata to their Measured Demand in MWh of Energy.

## Description

This Charge Code is used to calculate amounts associated with the first bulleted Tariff provision indicated above. That is, amounts that are required to reach an accounting trial balance of zero in the course of the Settlement process for Charge Codes that are calculated once a month.  Imbalances result when the charges calculated owing from CAISO Debtors is not equal to the payments calculated to the CAISO Creditors for the same Trading Month; that is, in cases where there is not a zero balance of cash inflows and outflows.

The Monthly Rounding Settlement Amount is calculated by summing those imbalance amounts for Charge Groups which contain monthly Charge Codes that achieve revenue neutrality for the CAISO. To the extent the net imbalance is negative, and the CAISO under-collected as a result of rounding error, the CAISO will collect these amounts from Scheduling Coordinators pro rata based on their share of the total CAISO Measured Demand. To the extent the net imbalance for the month is positive and the CAISO over-collected as a result of rounding error, the CAISO will allocate the revenues to Scheduling Coordinators on the same basis.

# Charge Code Requirements

## Business Rules

| Bus Req ID | Business Rule |
| --- | --- |
| 1.0 | This charge is a monthly charge settled on the last day of corresponding Trading Month.  |
| 2.0 | Amounts required to reach an accounting trial balance of zero in the course of the Settlement process in the event that the charges calculated as due from CAISO Debtors are not equal to the payments calculated as due to the CAISO Creditors for the same Trading Month.  |
| 2.1 | This charge sums the imbalance amounts for each relevant Charge Group, reverses the sign, and allocates the sum to Scheduling Coordinators based on pro rata of their Measured Demand in MWh of Energy.  |
| 2.2 | The Monthly Rounding Settlement Amount is calculated monthly by summing those imbalance amounts for Charge Groups that achieve revenue neutrality.  |
| 2.2.1 | Charge Groups are specified in Section 3.4 of this BPM. |
| 2.3 | This charge does not apply to Charge Groups that do not achieve revenue neutrality or are achieve revenue neutrality within the Charge Code such as Grid Management, FERC Fee, PIRP Forecast Fee and Emissions.  |
| 3.0 | If the net rounding amount for Charge Groups included in the Monthly Rounding Charge Code is a negative value, a charge (positive amount) is allocated to Measured Demand.  |
| 4.0 | If the net rounding amount for Charge Groups included in the Monthly Rounding Charge Code is a positive value, a payment (negative amount) is allocated to Measured Demand. |

## Predecessor Charge Codes

| Charge Code/ Pre-calc Name |
| --- |
| Measured Demand over Control Area Pre-calculation |
| Charge Group High Voltage Access Charge: contains CC 372 High Voltage Access Charge Allocation and CC 374 High Voltage Access Revenue Payment |
| Charge Group High Voltage Wheeling: contains CC 382 High Voltage Wheeling Allocation and CC 384 High Voltage Wheeling Revenue Payment |
| Charge Group Low Voltage Wheeling: contains CC 383 Low Voltage Wheeling Allocation and CC 385 - Low Voltage Wheeling Revenue Payment |
| Charge Group Black Start Capability: contains CC 3101 Black Start Capability Settlement and CC 1101 Black Start Capability Allocation |
| Charge Group Voltage Support: contains CC 302 Long Term Voltage Support Settlement and CC 1302 Long Term Voltage Support Allocation |
| Charge Group Neutrality: contains CC 8999 Monthly Neutrality Adjustment |
| Charge Group Capacity Procurement Mechanism (CPM): contains CC 7891 Monthly CPM Settlement, and CC 7896 Monthly CPM Allocation  |
| Charge Group Monthly Flex Ramp Product Allocation: contains CC 7078 Monthly Flexible Ramp Up Uncertainty Award Allocation and CC 7088 Monthly Flexible Ramp Down Uncertainty Award Allocation |

## Successor Charge Codes

| Charge Code/ Pre-calc Name |
| --- |
| None |

## Inputs – External Systems

|  |  |  |
| --- | --- | --- |
| Row # | Variable Name | Description |
| None |

## Inputs - Predecessor Charge Codes or Pre-calculations

| Row # | Variable Name | Predecessor Charge Code/ Pre-calc Configuration |
| --- | --- | --- |
| 1 | BA10MMeasuredDemandMinusRightsControlAreaQty\_Ex1 Bmdhi | Measured Demand over Control Area Pre-calculation |
| 2 | CAISOTotal10MMeasuredDemandMinusRightsControlAreaQty\_Ex1 mdhi | Measured Demand over Control Area Pre-calculation |
| 3 | HighVoltageAccessChargeChargeGroupTotal m | CC 372 - High Voltage Access Charge Allocation & CC 0374 - High Voltage Access Revenue Payment |
| 4 | HighVoltageWheelingChargeGroupTotal m  | CC 382 - High Voltage Wheeling Allocation & CC 384 - High Voltage Wheeling Revenue Payment |
| 5 | LowVoltageWheelingChargeGroupTotal m  | CC 383 – Low Voltage Wheeling Allocation & CC 385 - Low Voltage Wheeling Revenue Payment |
| 8 | BlackStartCapabilityChargeGroupTotal m  | CC 3101 Black Start Capability Settlement & CC 1101 - Black Start Capability Allocation |
| 9 | VoltageSupportChargeGroupTotal m | CC 302 - Long Term Voltage Support Settlement & CC 1302 - Long Term Voltage Support Allocation |
| 10 | NeutralityChargeGroupTotal m | CC 8999 – Monthly Neutrality Adjustment |
| 11 | CPMChargeGroupTotal m | CC 7891 - Monthly CPM Settlement, and CC 7896 - Monthly CPM Allocation |
| 12 | MonthlyFlexibleRampProductChargeGroupTotal m | CC7078 Monthly Flexible Ramp Up Uncertainty Award Allocation and CC7088 Monthly Flexible Ramp Down Uncertainty Award Allocation |
| 13 | EDAMAccessChargeGroupTotal m | CC8322 EDAM Access Charge Collection and CC8326 EDAM Access Charge Payment |

## CAISO Formula

Rounding Allocation by Business Associate

MonthlyRoundingAllocationAmount Bm =

(BusinessAssociateMonthlyRoundingAllocationQuantity Bm \* MonthlyRoundingPrice m )

Where

BusinessAssociateMonthlyRoundingAllocationQuantity Bm = BA10MMeasuredDemandMinusRightsControlAreaQty\_Ex1 Bmdhi

Where

MonthlyRoundingPrice m = MonthlyRoundingAmount m / MonthlyRoundingQuantity m

Where

MonthlyRoundingQuantity m =

CAISOTotal10MMeasuredDemandMinusRightsControlAreaQty\_Ex1 mdhi

Where

MonthlyRoundingAmount m =

BlackStartCapabilityChargeGroupTotal m +

VoltageSupportChargeGroupTotal m+

HighVoltageWheelingChargeGroupTotal m +

LowVoltageWheelingChargeGroupTotal m +

HighVoltageAccessChargeChargeGroupTotal m +

NeutralityChargeGroupTotal m +

CPMChargeGroupTotal m +

FlexRampMonthlyUncertaitnyAwardAllocChargeGroupTotal m +EDAMAccessChargeGroupTotal m

## Outputs

| Output Req ID | Name | Description |
| --- | --- | --- |
|  | In addition to any outputs listed below, all inputs shall be included as outputs. |  |
| 1 | MonthlyRoundingAllocationAmount Bm | The Rounding Allocation Amount attributed to a Business Associate for a Trading Month. |
| 2 | BusinessAssociateMonthlyRoundingAllocationQuantity Bm | The Rounding Allocation quantity attributed to a Business Associate for a Trading Month. |
| 3 | MonthlyRoundingPrice m | The Rounding Price calculated based on Monthly Rounding Amount and Measured Demand for a Trading Month. |
| 4 | MonthlyRoundingAmount m  | The Monthly Rounding amount for a Trading Month. |
| 5 | MonthlyRoundingQuantity m | Monthly Rounding quantity for a Trading month. |

# Charge Code Effective Dates

| Charge Code/Pre-calc Name | Document Version | Effective Start Date | Effective End Date | Version Update Type |
| --- | --- | --- | --- | --- |
| CC 4999 – Rounding Adjustment Allocation | 5.0a | 04/01/09  | 3/31/09  | Documentation Edits Only |
| CC 4999 – Rounding Adjustment Allocation | 5.1 | 4/1/09 | 12/31/09 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.2 | 1/1/10 | 3/31/09 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.3 | 4/1/09 | 3/31/09 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.4 | 4/1/09 | 3/31/11 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.5 | 04/01/10 | 10/31/12 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.6 | 11/1/12 | 12/31/12 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.6a | 1/1/13 | 4/30/14 | Documentation Edits Only |
| CC 4999 – Rounding Adjustment Allocation | 5.6b | 5/1/14 |  10/31/16 | Documentation Edits Only |
| CC 4999 – Rounding Adjustment Allocation | 5.7 | 11/1/16 | 3/31/18 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.8 | 4/1/2018 | 1/31/2021 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.9 | 2/1/2021 | 4/30/2026 | Configuration Impacted |
| CC 4999 – Rounding Adjustment Allocation | 5.10 | 5/1/2026 | Open | Configuration Impacted |