Settlement & Billing

No Pay

Version 5.5

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# Purpose of Document

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

# Introduction

## Background

During the Day Ahead Market, if the scheduled Demand is less than the CAISO Forecast of CAISO Demand, Residual Unit Commitment (RUC) Availability is procured to ensure that enough committed capacity is available and on line to meet the forecasted Demand as well as any forecasted shortfalls of minimum Generation requirements.

RUC Availability Bids (above the minimum Load) may only be submitted if an Energy Bid has also been submitted in the IFM. If a resource is under Resource Adequacy (RA) obligation for a specific amount of capacity, the RA Capacity must participate in RUC with a RUC bid price of $0/MW. If a RUC bid is not submitted for the RA Capacity, then CAISO will insert a $0/MW proxy bid per hour for the full amount of RA Capacity. Non-zero RUC Availability Bids may be submitted for the portion of a resource’s capacity that is not RA Capacity. Capacity not pre-dispatched as RMR may also submit non-zero RUC bids.

The for RUC Day Ahead rescinds availability payments to the extent that the resource with awarded RUC capacity does not fulfill the requirements associated with that payment. rescinds RUC capacity for Generators, participating Loads, and System Resources when one of the following conditions occur:

* RUC capacity is undispatchable due to outage, de-rate, or ramp rate limitation
* RUC award is adjusted due to Control Area conditions for a System Resource.

The requirements dictate that the resource with awarded RUC capacity must either convert that capacity into Energy if dispatched in Real-Time or keep that capacity unloaded and available for a potential dispatch for Energy in Real-Time. If the resource fails to fulfill these requirements, then it is not entitled to its full RUC Availability Payment.

Together, RUC Availability Payments under CC 6800, RUC Capacity Payment Rescission Settlement under CC 6824, and RUC Bid Cost Recovery Uplifts under CC 6620 are allocated in two tiers. First, CC 6806 DA RUC Tier 1 Allocation is based upon Net Negative CAISO Demand Deviation. Next, any remaining costs are allocated pro rata to metered CAISO Demand under CC 6807 DA RUC Tier 2 Allocation.

## Description

(CC 6824) rescinds Day Ahead RUC Availability Payments to the extent that the resource awarded RUC Capacity does not fulfill the requirements associated with that payment, using ten-minute quantity inputs.

is calculated by SaMC on an hourly basis at a resource specific level. is calculated as the product of RUC rescission quantity and RUC Price. The RUC No Pay Quantity Pre-calculation calculates the billable quantity where it is subsequently utilized by No Pay RUC Settlement CC 6824.

# Charge Code Requirements

## Business Rules

|  |  |
| --- | --- |
| Bus Req ID | Business Rule |
| 1.0 | This Charge Code must be computed daily on an hourly basis. |
| 2.0 | For adjustments to the Charge Code that cannot be accomplished by correction of upstream data inputs, recalculation, or operator override, Pass Through Bill Charge (PTB) logic will be applied. |
| 2.1 | RUC No Pay settlement (CC 6824) shall never rescind more than the Payment in RUC Availability settlement (CC 6800). |
| 3.0 | When an eligible resource has an interval with a negative MWh meter, CAISO will not charge for the energy of those intervals. |

## Predecessor Charge Codes

| Charge Code/ Pre-calc Name |
| --- |
| RUC No Pay Quantity Pre-calculation |
| Real Time Energy Pre-calculation |

## Successor Charge Codes

| Charge Code/ Pre-calc Name |
| --- |
| CC 6806 – Day Ahead Residual Unit Commitment (RUC) Tier 1 Allocation |
| Pre-calc – RUC Net Amount |

## Inputs – External Systems

|  |  |  |
| --- | --- | --- |
| Row # | Variable Name | Description |
| 1 | BAHourlyResourceRUCPrice BrtT’uI’M’VL’W’R’F’S’mdh | The Residual Unit Capacity (RUC) hourly Price. |
| 2 | PTBChargeAdjustment NoPayRUCSettlementAmount BJmdh | PTB Charge Adjustment for RUC Capacity Payment Rescission Settlement Amount by Business Associate, and Trading Hour h. |

## Inputs - Predecessor Charge Codes or Pre-calculations

|  |  |  |
| --- | --- | --- |
| Row # | Variable Name | Predecessor Charge Code/ Pre-calc Configuration |
| 1 | BA5mResourceRUCNoPayBidCapacityRescissionQuantity BrtT’uI’M’R’W’F’S’VL'mdhcif | RUC No Pay Quantity Pre-calculation  Note that this bill determinant is either zero or positive. |
| 2 | ResourceWholesaleExemptionFlag ***rmdhcif*** | Real Time Energy Pre-calculation |

## CAISO Formula

The RUC Capacity Rescission Settlement Amount

### NoPayRUCSettlementAmount BrtuT’I’M’F’S’mdh =

Max (0, (HourlyNoPayRUCQuantity BrtuT’I’M’F’S’mdh \* HourlyNoPayRUCPrice rtuT’I’M’F’S’mdh))

### HourlyNoPayRUCQuantity BrtuT’I’M’F’S’mdh =



IF

ResourceWholesaleExemptionFlag *rmdhcif* = 0

THEN

HourlyNoPayRUCQuantity BrtuT’I’M’F’S’mdh = BA5mResourceRUCNoPayBidCapacityRescissionQuantity BrtT’uI’M’R’W’F’S’VL'mdhcif

ELSE

HourlyNoPayRUCQuantity BrtuT’I’M’F’S’mdh = 0

### HourlyNoPayRUCPrice rtuT’I’M’F’S’mdh =

Average (** BAHourlyResourceRUCPrice BrtT’uI’M’VL’W’R’F’S’mdh )

Note: Averaging is done to drop the extra attributes. The above charge type will not be published in xml but the equivalent Current Price which further contains the additional BA\_ID attribute shall be published in its place. In addition, such Current Price is already provided in the Business Associate’s statement file.

The Current Price is provided where NoPayRUCSettlementAmount BrtuT’I’M’F’S’mdh or HourlyNoPayRUCQuantity BrtuT’I’M’F’S’mdh exists.

## Outputs

|  |  |  |
| --- | --- | --- |
| Output Req ID | Name | Description |
|  | In addition to any outputs listed below, all inputs shall be included as outputs. |  |
| 1 | NoPayRUCSettlementAmount BrtuT’I’M’F’S’mdh | Hourly RUC Capacity Payment Rescission Settlement for unavailable RUC. |
| 2 | HourlyNoPayRUCQuantity BrtuT’I’M’F’S’mdh | Hourly RUC Capacity Rescission Quantity (in MWh) for unavailable RUC capacity. |
| 3 | HourlyNoPayRUCPrice rtuT’I’M’R’F’S’mdh | The Hourly RUC Marginal Price.  Note: This charge type will not be published in xml but the equivalent Current Price for this charge code which further contains the additional BA\_ID attribute shall be published in its place.  In addition, such Current Price is already currently provided in the Business Associate’s statement file. |

# Charge Code Effective Dates

| Charge Code/  Pre-calc Name | Document Version | Effective Start Date | Effective End Date | Version Update Type |
| --- | --- | --- | --- | --- |
| CC 6824 – No Pay Residual Unit Commitment (RUC) Settlement | 5.0 | 04/01/09 | 01/31/10 | Documentation Edits Only |
| CC 6824 – No Pay Residual Unit Commitment (RUC) Settlement | 5.1 | 02/01/10 | 4/30/14 | Documentation and Configuration Edits |
| CC 6824 – No Pay Residual Unit Commitment (RUC) Settlement | 5.2 | 5/1/14 | 9/30/14 | Documentation and Configuration Edits |
| CC 6824 – No Pay Residual Unit Commitment (RUC) Settlement | 5.3 | 10/1/14 | 10/31/17 | Configuration Impacted |
| CC 6824 – No Pay Residual Unit Commitment (RUC) Settlement | 5.4 | 11/1/17 | 9/30/20 | Documentation and Configuration Edits |
| CC 6824 – No Pay Residual Unit Commitment (RUC) Settlement | 5.5 | 10/1/20 | ~~Open4~~/30/26 | Documentation and Configuration Edits |