Attachment A – Clean Tariff

Reliability Demand Response Resource Bidding

California Independent System Operator Corporation

March 23, 2022
30.5.8.2 Real-Time Market.

Scheduling Coordinators may submit Demand Bids, Export Bids, Virtual Bids, and Bids for Non-Resource-Specific System Resources above the Soft Energy Bid Cap, not to exceed the Hard Energy Bid Cap, for any Trading Hour of the Real-Time Market in which

(a) The conditions in Section 30.5.8.1 applied to the same Trading Hour of the Day-Ahead Market; or

(b) (1) The CAISO has accepted a Bid for the applicable Trading Hour of the Real-Time Market with an Energy Bid price that exceeds the Soft Energy Bid Cap pursuant to Section 30.7.12, not including Bids from Reliability Demand Response Resources, or (2) the Maximum Import Bid Price exceeds the Soft Energy Bid Cap.

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30.6 Bidding and Scheduling of PDRs and RDRRs

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30.6.2 Bidding and Scheduling of RDRRs

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30.6.2.1.2 Real-Time Dispatch Options

For purposes of bidding and scheduling in the Real-Time Market, each Scheduling Coordinator for a Demand Response Provider representing a Reliability Demand Response Resource shall select either the Marginal Real-Time Dispatch Option or the Discrete Real-Time Dispatch Option prior to the start of the initial Reliability Demand Response Services Term applicable to the Reliability Demand Response Resource. The selection for each Reliability Demand Response Resource shall remain in effect until
such time as the Scheduling Coordinator for the Reliability Demand Response Resource chooses to
change its selection from the Marginal Real-Time Dispatch Option to the Discrete Real-Time Dispatch
Option or vice versa, in which case the change in selection shall go into effect at the start of the next
Reliability Demand Response Services Term applicable to the Reliability Demand Response Resource.
A Reliability Demand Response Resource that is subject to either the Marginal Real-Time Dispatch
Option or the Discrete Real-Time Dispatch Option shall have a Default Minimum Load Bids of zero (0)
dollars.

30.6.2.1.2.1 Marginal Real-Time Dispatch Option

A Reliability Demand Response Resource that is subject to the Marginal Real-Time Dispatch Option:

(a) May submit either a single-segment Bid or a multi-segment Bid in the Real-Time Market
that must be at least ninety-five percent (95%) of the applicable Soft Energy Bid Cap.

(b) When (1) the CAISO has accepted a Bid for the applicable Trading Hour of the Real-
Time Market with an Energy Bid price that exceeds the Soft Energy Bid Cap pursuant to
Section 30.7.12, or (2) the Maximum Import Bid Price exceeds the Soft Energy Bid Cap,
may submit either a single-segment Bid or a multi-segment Bid in the Real-Time Market
that must be at least ninety-five percent (95%) of the applicable Hard Energy Bid Cap,
not to exceed the Hard Energy Bid Cap.

In any instance where the Scheduling Coordinator for a Reliability Demand Response
Resource has submitted a Real-Time Market Bid and the Soft Energy Bid Cap changes
for the same Trading Hour, the Scheduling Coordinator should submit a revised Bid by
Market Close. Where the Scheduling Coordinator does not submit a revised Bid, the
CAISO will automatically adjust the Bid after Market Close, maintaining the percentage of
the bid cap originally submitted by the Scheduling Coordinator, not to exceed the Hard
Energy Bid Cap.

(c) Shall be dispatched as a marginal resource if it is dispatched by the CAISO. For the
purpose of making this determination and setting the Locational Marginal Price, the
CAISO treats a Reliability Demand Response Resource as if it were flexible with an infinite Ramp Rate between zero (0) and its PMax.

**30.6.2.1.2.2 Discrete Real-Time Dispatch Option**

A Reliability Demand Response Resource that is subject to the Discrete Real-Time Dispatch Option:

(a) May submit only a single-segment Bid in the Real-Time Market that must be at least ninety-five percent (95%) of the applicable Soft Energy Bid Cap.

(b) When (1) the CAISO has accepted a Bid for the applicable Trading Hour of the Real-Time Market with an Energy Bid price that exceeds the Soft Energy Bid Cap pursuant to Section 30.7.12, or (2) the Maximum Import Bid Price exceeds the Soft Energy Bid Cap, may submit only a single-segment Bid in the Real-Time Market that must be at least ninety-five percent (95%) of the applicable Hard Energy Bid Cap, not to exceed the Hard Energy Bid Cap.

In any instance where the Scheduling Coordinator for a Reliability Demand Response Resource has submitted a Real-Time Market Bid and the Soft Energy Bid Cap changes for the same Trading Hour, the Scheduling Coordinator should submit a revised Bid by Market Close. Where the Scheduling Coordinator does not submit a revised Bid, the CAISO will automatically adjust the Bid after Market Close, maintaining the percentage of the bid cap originally submitted by the Scheduling Coordinator, not to exceed the Hard Energy Bid Cap.

(c) Shall be dispatched as a discrete (non-marginal) resource if it is dispatched by the CAISO.

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30.7 Bid Validation

The CAISO shall validate submitted Bids pursuant to the procedures set forth in this Section 30.7 and the rules set forth in the Business Practice Manuals.

30.7.1 Scheduling Coordinator Access

Each Scheduling Coordinator will be provided access to the CAISO’s secure communication system to submit, modify and cancel Bids prior to the close of both the DAM and RTM, as specified in Section 30.5.1. The CAISO shall provide information regarding submitted Bids including, but not be limited to, the following: (i) notification of acceptance; (ii) notification of validation; (iii) notification of rejection; (iv) notification of status; (v) notification of submission error(s); and (vi) default modification or generation of Bids, including as further provided below, if any, on behalf of Scheduling Coordinators.
30.5.8.2 Real-Time Market.

Scheduling Coordinators may submit Demand Bids, Export Bids, Virtual Bids, and Bids for Non-
Resource-Specific System Resources above the Soft Energy Bid Cap, not to exceed the Hard Energy Bid
Cap, for any Trading Hour of the Real-Time Market in which

(a) The conditions in Section 30.5.8.1 applied to the same Trading Hour of the Day-Ahead
Market; or

(b) (1) The CAISO has accepted a Bid for the applicable Trading Hour of the Real-Time
Market with an Energy Bid price that exceeds the Soft Energy Bid Cap pursuant to
Section 30.7.12, not including Bids from Reliability Demand Response Resources, or (2)
the Maximum Import Bid Price exceeds the Soft Energy Bid Cap.

30.6 Bidding and Scheduling of PDRs and RDRRs

30.6.2 Bidding and Scheduling of RDRRs

30.6.2.1.2 Real-Time Dispatch Options

For purposes of bidding and scheduling in the Real-Time Market, each Scheduling Coordinator for a
Demand Response Provider representing a Reliability Demand Response Resource shall select either
the Marginal Real-Time Dispatch Option or the Discrete Real-Time Dispatch Option prior to the start of
the initial Reliability Demand Response Services Term applicable to the Reliability Demand Response
Resource. The selection for each Reliability Demand Response Resource shall remain in effect until
such time as the Scheduling Coordinator for the Reliability Demand Response Resource chooses to change its selection from the Marginal Real-Time Dispatch Option to the Discrete Real-Time Dispatch Option or vice versa, in which case the change in selection shall go into effect at the start of the next Reliability Demand Response Services Term applicable to the Reliability Demand Response Resource. A Reliability Demand Response Resource that is subject to either the Marginal Real-Time Dispatch Option or the Discrete Real-Time Dispatch Option shall have a Default Minimum Load Bids of zero (0) dollars registered in the Master File.

30.6.2.1.2.1 Marginal Real-Time Dispatch Option

A Reliability Demand Response Resource that is subject to the Marginal Real-Time Dispatch Option:

(a) May submit either a single-segment Bid or a multi-segment Bid in the Real-Time Market that must be at least ninety-five percent (95%) of the applicable Soft Energy Bid Cap.

(b) When (1) the CAISO has accepted a Bid for the applicable Trading Hour of the Real-Time Market with an Energy Bid price that exceeds the Soft Energy Bid Cap pursuant to Section 30.7.12, or (2) the Maximum Import Bid Price exceeds the Soft Energy Bid Cap, may submit either a single-segment Bid or a multi-segment Bid in the Real-Time Market that must be at least ninety-five percent (95%) of the applicable Hard Energy Bid Cap, not to exceed the Hard Energy Bid Cap.

In any instance where the Scheduling Coordinator for a Reliability Demand Response Resource has submitted a Real-Time Market Bid and the Soft Energy Bid Cap changes for the same Trading Hour, the Scheduling Coordinator should submit a revised Bid by Market Close. Where the Scheduling Coordinator does not submit a revised Bid, the CAISO will automatically adjust the Bid after Market Close, maintaining the percentage of the bid cap originally submitted by the Scheduling Coordinator, not to exceed the Hard Energy Bid Cap.

(bc) Shall be dispatched as a marginal resource if it is dispatched by the CAISO. For the purpose of making this determination and setting the Locational Marginal Price, the
CAISO treats a Reliability Demand Response Resource as if it were flexible with an infinite Ramp Rate between zero (0) and its PMax.

30.6.2.1.2.2 Discrete Real-Time Dispatch Option

A Reliability Demand Response Resource that is subject to the Discrete Real-Time Dispatch Option:

(a) May submit only a single-segment Bid in the Real-Time Market that must be at least ninety-five percent (95%) of the applicable Soft Energy Bid Cap.

(b) When (1) the CAISO has accepted a Bid for the applicable Trading Hour of the Real-Time Market with an Energy Bid price that exceeds the Soft Energy Bid Cap pursuant to Section 30.7.12, or (2) the Maximum Import Bid Price exceeds the Soft Energy Bid Cap, may submit only a single-segment Bid in the Real-Time Market that must be at least ninety-five percent (95%) of the applicable Hard Energy Bid Cap, not to exceed the Hard Energy Bid Cap.

In any instance where the Scheduling Coordinator for a Reliability Demand Response Resource has submitted a Real-Time Market Bid and the Soft Energy Bid Cap changes for the same Trading Hour, the Scheduling Coordinator should submit a revised Bid by Market Close. Where the Scheduling Coordinator does not submit a revised Bid, the CAISO will automatically adjust the Bid after Market Close, maintaining the percentage of the bid cap originally submitted by the Scheduling Coordinator, not to exceed the Hard Energy Bid Cap.

(bc) Shall be dispatched as a discrete (non-marginal) resource if it is dispatched by the CAISO.

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30.7 Bid Validation

The CAISO shall validate submitted Bids pursuant to the procedures set forth in this Section 30.7 and the rules set forth in the Business Practice Manuals.

30.7.1 Scheduling Coordinator Access

Each Scheduling Coordinator will be provided access to the CAISO’s secure communication system to submit, modify and cancel Bids prior to the close of both the DAM and RTM, as specified in Section 30.5.1. The CAISO shall provide information regarding submitted Bids including, but not be limited to, the following: (i) notification of acceptance; (ii) notification of validation; (iii) notification of rejection; (iv) notification of status; (v) notification of submission error(s); and (vi) default modification or generation of Bids, including as further provided below, if any, on behalf of Scheduling Coordinators.