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| NPRR Number | [1201](https://www.ercot.com/mktrules/issues/NPRR1201) | NPRR Title | Limitations on Resettlement Timeline and Default Uplift Exposure Adjustments |
| Date of Decision | February 1, 2024 |
| Action | Approved |
| Timeline  | Normal |
| Effective Date | March 1, 2024 for Sections 9.2.5 and 9.5.6Upon system implementation for Section 9.19.1 |
| Priority and Rank Assigned | Priority – 2024; Rank – 4080 |
| Nodal Protocol Sections Requiring Revision  | 9.2.5, DAM Resettlement Statement9.5.6, RTM Resettlement Statement9.19.1, Default Uplift Invoices |
| Related Documents Requiring Revision/Related Revision Requests | None |
| Revision Description | This Nodal Protocol Revision Request (NPRR) reduces exposures for both ERCOT and Market Participants for resettlements and Default Uplift Invoices for historical Operating Days. This NPRR:1. Limits timeline for resettlement due to errors that are discovered, and a Market Notice of the error is provided to Market Participants, within one year after the Operating Day. This limit does not apply to resettlement due to an Alternative Dispute Resolution (ADR), a Return of Settlement Funds (RSF), or a resettlement directed by the ERCOT Board to address unusual circumstances.
2. Adjusts the Maximum MWh Activity formula in Section 9.19.1 to only consider Congestion Revenue Rights (CRRs) owned during the Operating Days of the reference month, and to not consider CRRs that may have been bought or sold for the month, but are no longer owned on the given Operating Days of the reference month.
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| Reason for Revision |  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 1 – Be an industry leader for grid reliability and resilience [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 2 - Enhance the ERCOT region’s economic competitiveness with respect to trends in wholesale power rates and retail electricity prices to consumers [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 3 - Advance ERCOT, Inc. as an independent leading industry expert and an employer of choice by fostering innovation, investing in our people, and emphasizing the importance of our mission General system and/or process improvement(s) Regulatory requirements ERCOT Board/PUCT Directive*(please select ONLY ONE – if more than one apply, please select the ONE that is most relevant)* |
| Justification of Reason for Revision and Market Impacts | This NPRR allows ERCOT and Market Participants more finality in Settlement and reduces disruption and unexpected charges due to the following issues:1. Current Protocols do not have a timeline on resettlement due to errors and could require resettlement of an Operating Day years after the original Settlement, for an amount as little as $200.
2. This NPRR reduces exposure to and from Market Participants that have left the market that may owe or are owed payments due to the resettlement of historical Operating Days, which could cause delays in payments and may cause short-pays.
3. Resettlement of historical Real-Time Operating Days also involves the re-calculation of Load volumes which shifts Settlement amounts for charge types unrelated to the error.

This NPRR does not limit the resettlement timeline for certain situations including: a resettlement due to an ADR, a RSF, and a resettlement directed by the ERCOT Board to address unusual circumstances.Similarly, this NPRR reduces exposure to ERCOT and CRR Account Holders to Default Uplift Invoices. Under current Protocol language, a CRR Account Holder could be exposed to an uplift more than two years after they sold their CRRs to another CRR Account Holder.The current formula for Default Uplift Invoices looks at CRR activity for a given Operating Day in addition to CRRs that were owned on the Operating Day. If a CRR was purchased for an Operating Day years in advance and subsequently sold before the Operating Day, the former CRR Account Holder is still exposed to the Default Uplift Invoice, even if they sold all their CRR positions and left the market before the Operating Day. Adjusting the Maximum MWh Activity formula to only count CRRs that were owned by a CRR Account Holder on the given Operating Day increases the likelihood of recovery of a default uplift by ERCOT, decreases the complexity of recovery, and provides CRR Account Holders finality upon selling CRRs, no longer exposing former CRR Account Holders to potential default uplift for CRRs they no longer own. |
| PRS Decision | On 10/12/23, PRS voted unanimously to recommend approval of NPRR1201 as submitted. All Market Segments participated in the vote.On 11/9/23, PRS voted unanimously to endorse and forward to TAC the 10/12/23 PRS Report and 9/20/23 Impact Analysis for NPRR1201 with a proposed effective date of the first of the month following PUCT approval for Sections 9.2.5 and 9.5.6 and upon system implementation for Section 9.19.1 with a recommended priority of 2024 and rank of 4080. All Market Segments participated in the vote. |
| Summary of PRS Discussion | On 10/12/23, ERCOT Staff provided an overview of NPRR1201.On 11/9/23, ERCOT Staff outlined a split effective date for NPRR1201. |
| TAC Decision | On 12/4/23, TAC voted unanimously to recommend approval of NPRR1201 as recommended by PRS in the 11/9/23 PRS Report. All Market Segments participated in the vote. |
| Summary of TAC Discussion | On 12/4/23, TAC reviewed the ERCOT Opinion, ERCOT Market Impact Statement, and Independent Market Monitor (IMM) Opinion for NPRR1201. ERCOT Staff confirmed that court-ordered resettlements would not be impeded by NPRR1201. |
| TAC Review/Justification of Recommendation |  Revision Request ties to Reason for Revision as explained in Justification  Impact Analysis reviewed and impacts are justified as explained in Justification Opinions were reviewed and discussed Comments were reviewed and discussed (if applicable) Other: (explain) |
| ERCOT Board Decision | On 12/19/23, the ERCOT Board voted unanimously to recommend approval of NPRR1201 as recommended by TAC in the 12/4/23 TAC Report. |
| PUCT Decision | On 2/1/24, the PUCT approved NPRR1201 and accompanying ERCOT Market Impact Statement as presented in Project No. 54445, Review of Protocols Adopted by the Independent Organization. |

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| **Opinions** |
| Credit Review | ERCOT Credit Staff and the Credit Finance Sub Group (CFSG) have reviewed NPRR1201 and do not believe that it requires changes to credit monitoring activity or the calculation of liability. |
| Independent Market Monitor Opinion | IMM has no opinion on NPRR1201. |
| ERCOT Opinion | ERCOT supports approval of NPRR1201. |
| ERCOT Market Impact Statement | ERCOT Staff has reviewed NPRR1201 and believes this NPRR reduces exposure to existing and exited Market Participants by providing finality of Settlement while still allowing for disputing and correcting inaccurate Settlements within a reasonable time frame. |

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| Sponsor |
| Name | Austin Rosel |
| E-mail Address | austin.rosel@ercot.com |
| Company | ERCOT |
| Phone Number | 512-248-6686 |
| Cell Number |  |
| Market Segment | Not applicable |

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| **Market Rules Staff Contact** |
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| **Phone Number** | 512-248-6464 |

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| **Comments Received** |
| Comment Author | **Comment Summary** |
| None |  |

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| Market Rules Notes |

Administrative changes to the language were made and authored as “ERCOT Market Rules.”

Please note that the following NPRR(s) also propose revisions to the following section(s):

* NPRR1188, Implement Nodal Dispatch and Energy Settlement for Controllable Load Resources
	+ Section 9.19.1

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| Proposed Protocol Language Revision |

9.2.5 DAM Resettlement Statement

(1) ERCOT shall issue DAM Resettlement Statements for a given Operating Day if the ERCOT Board finds that the DAM Locational Marginal Prices (LMPs), Market Clearing Prices for Capacity (MCPCs), or Settlement Point Prices are significantly affected by a software or other error under Section 4.5.3, Communicating DAM Results. ERCOT shall also produce DAM Resettlement Statements required by resolution of Settlement and billing disputes and the correction of errors other than price errors pursuant to this Section. In addition, the ERCOT Board may, in its discretion, direct ERCOT to run a resettlement of any Operating Day, at any time, to address unusual circumstances.

(2) ERCOT shall issue a DAM Resettlement Statement for a given Operating Day due to errors other than errors in prices when:

(a) The total of all errors other than price errors results in an absolute value impact greater than 2% of the total DAM Statement amount for any single Statement Recipient for the Operating Day;

(b) The impact to the Statement Recipient is greater than $200.00; and

(c) The error is discovered, and a Market Notice of the error is provided to Market Participants, within one year of the Operating Day at issue.

(3) ERCOT shall issue a DAM Resettlement Statement for an Operating Day if an error in the DAM Settlement, which does not otherwise meet the Protocol requirements for resettlement as specified in paragraphs (1) and (2) above, will prevent ERCOT from achieving revenue neutrality.

(4) No later than 150 days after each affected Operating Day, ERCOT shall resettle Operating Days with errors, other than errors in prices, with cumulative impacts that do not meet the threshold described in paragraph (2) above if the cumulative effect of errors to a single Statement Recipient in the 150 day window results in an absolute value impact greater than 1% of the total DAM Statement amounts for any Statement Recipient for the affected Operating Days, if this impact to the Statement Recipient is greater than $5,000.00.

(5) A DAM Resettlement Statement must reflect differences to financial records generated on the previous Settlement Statement for the given DAM.

(6) ERCOT may issue DAM Resettlement Statements after the timeline referenced in paragraph (2) above if directed by the ERCOT Board, the result of a resolution of an Alternative Dispute Resolution (ADR) procedure, or under the procedure for Return of Settlement Funds.

(7) If ERCOT is required to issue a Resettlement Statement per this Section, but resettlement is not practicable due to system limitations, ERCOT shall make the adjustments through a separate Invoice that is produced outside of normal Settlement Invoices. The appropriate payments and charges, along with Settlement-quality information, shall be supplied to all impacted Market Participants.

9.5.6 RTM Resettlement Statement

(1) ERCOT shall issue a RTM Resettlement Statement using corrected Settlement data due to resolution of Settlement and billing disputes and the correction of errors other than price errors pursuant to this Section. Any resettlement occurring after an RTM True-Up Statement has been issued must meet the same Interval Data Recorder (IDR) Meter Data Threshold requirements defined in Section 9.5.8, RTM True-Up Statement, and is subject to the same limitations for filing a dispute. Despite the preceding sentence, the ERCOT Board may, in its discretion, direct ERCOT to run a resettlement of any Operating Day, at any time, to address unusual circumstances.

(2) ERCOT shall issue a RTM Resettlement Statement for a given Operating Day due to errors other than errors in prices when:

(a) The total of all errors other than price errors results in an absolute value impact greater than 4% of the total RTM Statement amount for any single Statement Recipient for the Operating Day;

(b) The impact to the Statement Recipient is greater than $400.00; and

(c) The error is discovered, and a Market Notice of the error is provided to Market Participants, within one year of the Operating Day at issue.(3) Changes to meter data managed through a process other than a dispute or Alternative Dispute Resolution will not require evaluation of a resettlement defined in paragraph (2) above.

(4) For any Settlement and billing disputes resolved prior to issuance of the RTM Final Statement, ERCOT shall effect the dispute’s resolution on the RTM Final Statement for that Operating Day. If a dispute is submitted by 15 Business Days after the issuance of the RTM Initial Statement for an Operating Day and is not resolved on the RTM Final Statement, ERCOT will affect the dispute’s resolution on an RTM Resettlement Statement for that Operating Day. ERCOT shall issue such an RTM Resettlement Statement within a reasonable time after resolving the Settlement and billing dispute.

(5) ERCOT must effect the resolution of any dispute submitted more than 15 Business Days after the issuance of the RTM Initial Statement on the next available Resettlement or RTM True-Up statement for that Operating Day. For Settlement and billing disputes resolved under Section 9.14, Settlement and Billing Dispute Process, and submitted at least 20 Business Days before the scheduled date for issuance of the RTM True-Up Statement, ERCOT will include adjustments relating to the dispute on the RTM True-Up Statement. Resolved disputes must be included on the next available Settlement Invoice after ERCOT has issued the RTM True-Up Statement.

(6) ERCOT may not issue an RTM Resettlement Statement less than 20 days before a scheduled RTM Final Statement or RTM True-Up Statement for the relevant Operating Day. An RTM Resettlement Statement will reflect differences to financial records generated on the previous Settlement Statement for the given Operating Day.

(7) ERCOT may issue an RTM Resettlement Statement after the issuance of an RTM Final Statement in order to resolve approved disputes related to Section 5.6.5.2, RUC Make-Whole Payment and RUC Clawback Charge for Resources Receiving OSAs.

(6) ERCOT may issue RTM Resettlement Statements after the timeline referenced in paragraph (2) above if directed by the ERCOT Board, the result of a resolution of an Alternative Dispute Resolution (ADR) procedure, or under the procedure for Return of Settlement Funds.

(7) If ERCOT is required to issue a Resettlement Statement per this Section, but resettlement is not practicable due to system limitations, ERCOT shall make the adjustments through a separate Invoice that is produced outside of normal Settlement Invoices. The appropriate payments and charges, along with Settlement quality information, shall be supplied to all impacted Market Participants.

9.19.1 Default Uplift Invoices

(1) ERCOT shall collect the total short-pay amount for all Settlement Invoices for a month, less the total payments expected from a payment plan, from Qualified Scheduling Entities (QSEs) and CRR Account Holders. ERCOT must pay the funds it collects from payments on Default Uplift Invoices to the Entities previously short-paid. ERCOT shall notify those Entities of the details of the payment.

(2) Each Counter-Party’s share of the uplift is calculated using the best available Settlement data for each Operating Day in the month prior to the month in which the default occurred (the “reference month”), and is calculated as follows:

**DURSCP*cp* = TSPA \* MMARS*cp***

Where:

MMARS *cp* = MMA *cp* / MMATOT

MMA *cp* = Max { ∑*mp* (URTMG *mp*+ URTDCIMP *mp* + USOGTOT *mp*),

∑*mp* (URTAML *mp* + UWSLTOT *mp*),

∑*mp*URTQQES *mp*,

∑*mp* URTQQEP *mp*,

∑*mp* UDAES *mp*,

∑*mp* UDAEP *mp*,

∑*mp* (URTOBL *mp +* URTOBLLO *mp*),

∑*mp* (UDAOPT *mp*+ UDAOBL *mp*)}

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| ***[NPRR995 and NPRR1012: Replace applicable portions of the formula “MMA cp” above with the following upon system implementation for NPRR995; or upon system implementation of the Real-Time Co-Optimization (RTC) project for NPRR1012:]***MMA *cp* = Max { ∑*mp* (URTMG *mp*+ URTDCIMP *mp* + USOGTOT *mp*), ∑*mp* (URTAML *mp* + UWSLTOT *mp* + USOCLTOT *mp*), ∑*mp*URTQQES *mp*, ∑*mp* URTQQEP *mp*, ∑*mp* UDAES *mp*, ∑*mp* UDAEP *mp*,∑*mp* (URTOBL *mp +* URTOBLLO *mp*), ∑*mp* (UDAOPT *mp*+ UDAOBL *mp*), ∑*mp* UDAASOAWD *mp*} |

MMATOT = ∑*cp* (MMA*cp*)

Where:

URTMG *mp* = ∑*p, r, i* (RTMG *mp, p, r, i*), excluding RTMG for RMR Resources and RTMG in Reliability Unit Commitment (RUC)-Committed Intervals for RUC-committed Resources

URTDCIMP *mp* = ∑*p, i* (RTDCIMP *mp, p, i*) / 4

URTAML *mp* = max(0,∑*p, i* (RTAML *mp, p, i*))

URTQQES *mp* = ∑*p, i* (RTQQES *mp, p, i*) / 4

URTQQEP *mp* = ∑*p, i* (RTQQEP *mp, p, i*) / 4

UDAES *mp* = ∑*p, h* (DAES *mp, p, h*)

UDAEP *mp* = ∑*p, h* (DAEP *mp, p, h*)

URTOBL *mp* = ∑*(j, k), h* (RTOBL*mp, (j, k), h*)

URTOBLLO *mp* = ∑*(j, k), h* (RTOBLLO*mp, (j, k), h*)

UDAOPT *mp* = ∑*(j, k), h* (DAOPT*mp, (j, k), h*)

UDAOBL *mp* = ∑*(j, k), h* (DAOBL*mp, (j, k), h*)

UWSLTOT *mp* = (-1) \* ∑*r, b* (MEBL *mp, r, b*)

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| ***[NPRR1012: Insert the formula “UDAASOAWD mp” below upon system implementation of the Real-Time Co-Optimization (RTC) project:]***UDAASOAWD *mp*  = ∑*h* (DARUOAWD *mp, h* + DARDOAWD *mp, h* + DARROAWD *mp, h* + DANSOAWD *mp, h* + DAECROAWD *mp, h* ) |

USOGTOT *mp* = ∑*gsc* (MEBSOGNET *mp, gsc*) + ∑ *p, i* (RTMGSOGZ *mp, p, i*)

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| ***[NPRR995: Insert the formula “USOCLTOT mp” below upon system implementation:]***USOCLTOT *mp* = (-1) \* ∑*gsc, b* (WSOL *mp, gsc, b*) |

The above variables are defined as follows:

| Variable | Unit | Definition |
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| DURSCP *cp* | $ | *Default Uplift Ratio Share per Counter-Party*—The Counter-Party’s pro rata portion of the total short-pay amount for all Day-Ahead Market (DAM) and Real-Time Market (RTM) Invoices for a month.  |
| TSPA | $ | *Total Short Pay Amount*—The total short-pay amount calculated by ERCOT to be collected through the Default Uplift Invoice process. |
| MMARS *cp* | None | *Maximum MWh Activity Ratio Share*—The Counter-Party’s pro rata share of Maximum MWh Activity in the reference month. |
| MMA *cp* | MWh | *Maximum MWh Activity*—The maximum MWh activity of all Market Participants represented by the Counter-Party in the DAM, RTM and CRR Auction in the reference month. |
| MMATOT | MWh | *Maximum MWh Activity Total*—The sum of all Counter-Party’s Maximum MWh Activity in the reference month. |
| RTMG *mp, p, r, i* | MWh | *Real-Time Metered Generation per Market Participant per Settlement Point per Resource*—The Real-Time energy produced by the Generation Resource *r* represented by Market Participant *mp*, at Resource Node *p*, for the 15-minute Settlement Interval *i*, where the Market Participant is a QSE. |
| URTMG *mp* | MWh | *Uplift Real-Time Metered Generation per Market Participant*—The monthly sum of Real-Time energy produced by Generation Resources represented by Market Participant *mp*, excluding generation for RMR Resources and generation in RUC-Committed Intervals, where the Market Participant is a QSE assigned to the registered Counter-Party.  |
| RTDCIMP *mp, p, i* | MW | *Real-Time DC Import per QSE per Settlement Point*—The aggregated Direct Current Tie (DC Tie) Schedule submitted by Market Participant *mp,* as an importer into the ERCOT System through DC Tie *p*, for the 15-minute Settlement Interval *i*, where the Market Participant is a QSE. |
| URTDCIMP *mp* | MW | *Uplift Real-Time DC Import per Market Participant*—The monthly sum of the aggregated DC Tie Schedule submitted by Market Participant *mp*, as an importer into the ERCOT System where the Market Participant is a QSE assigned to a registered Counter-Party. |
| RTAML *mp, p, i* | MWh | *Real-Time Adjusted Metered Load per Market Participant per Settlement Point*—The sum of the Adjusted Metered Load (AML) at the Electrical Buses that are included in Settlement Point *p* represented by Market Participant *mp* for the 15-minute Settlement Interval *i*, where the Market Participant is a QSE. |
| URTAML *mp* | MWh | *Uplift Real-Time Adjusted Metered Load per Market Participant*—The monthly sum of the AML represented by Market Participant *mp*, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| RTQQES *mp, p, i* | MW | *QSE-to-QSE Energy Sale per Market Participant per Settlement Point*—The amount of MW sold by Market Participant *mp* through Energy Trades at Settlement Point *p* for the 15-minute Settlement Interval *i*, where the Market Participant is a QSE. |
| URTQQES *mp* | MWh | *Uplift QSE-to-QSE Energy Sale per Market Participant*—The monthly sum of MW sold by Market Participant *mp* through Energy Trades, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| RTQQEP *mp, p, i* | MW | *QSE-to-QSE Energy Purchase per Market Participant per Settlement Point*—The amount of MW bought by Market Participant *mp* through Energy Trades at Settlement Point *p* for the 15-minute Settlement Interval *i*, where the Market Participant is a QSE. |
| URTQQEP *mp* | MWh | *Uplift QSE-to-QSE Energy Purchase per Market Participant*—The monthly sum of MW bought by Market Participant *mp* through Energy Trades, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| DAES *mp, p, h* | MW | *Day-Ahead Energy Sale per Market Participant per Settlement Point per hour*—The total amount of energy represented by Market Participant *mp*’s cleared Three-Part Supply Offers in the DAM and cleared DAM Energy-Only Offers at Settlement Point *p*, for the hour *h*, where the Market Participant is a QSE. |
| UDAES *mp* | MWh | *Uplift Day-Ahead Energy Sale per Market Participant*—The monthly total of energy represented by Market Participant *mp*’s cleared Three-Part Supply Offers in the DAM and cleared DAM Energy-Only Offer Curves, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| DAEP *mp, p, h* | MW | *Day-Ahead Energy Purchase per Market Participant per Settlement Point per hour*—The total amount of energy represented by Market Participant *mp*’s cleared DAM Energy Bids at Settlement Point *p* for the hour *h*, where the Market Participant is a QSE. |
| UDAEP *mp* | MWh | *Uplift Day-Ahead Energy Purchase per Market Participant*—The monthly total of energy represented by Market Participant *mp*’s cleared DAM Energy Bids, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| RTOBL *mp, (j, k), h* | MW | *Real-Time Obligation per Market Participant per source and sink pair per hour*—The number of Market Participant *mp*’s Point-to-Point (PTP) Obligations with the source *j* and the sink *k* settled in Real-Time for the hour *h*, and where the Market Participant is a QSE. |
| URTOBL *mp* | MWh | *Uplift Real-Time Obligation per Market Participant*—The monthly total of Market Participant *mp*’s PTP Obligations settled in Real-Time, counting the quantity only once per source and sink pair, and where the Market Participant is a QSE assigned to the registered Counter-Party. |
| RTOBLLO *q, (j, k)* | MW | *Real-Time Obligation with Links to an Option per QSE per pair of source and sink*⎯The total MW of the QSE’s PTP Obligation with Links to an Option Bids cleared in the DAM and settled in Real-Time for the source *j* and the sink *k* for the hour. |
| URTOBLLO *q, (j, k)* | MW | *Uplift Real-Time Obligation with Links to an Option per QSE per pair of source and sink*⎯The monthly total of Market Participant *mp*’s MW of PTP Obligation with Links to Options Bids cleared in the DAM and settled in Real-Time for the source *j* and the sink *k* for the hour, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| DAOPT *mp, (j, k), h* | MW | *Day-Ahead Option per Market Participant per source and sink pair per hour*⎯The number of Market Participant *mp*’s PTP Options with the source *j* and the sink *k* owned in the DAM for the hour *h*, and where the Market Participant is a CRR Account Holder.  |
| UDAOPT *mp* | MWh | *Uplift Day-Ahead Option per Market Participant*⎯The monthly total of Market Participant *mp*’s PTP Options owned in the DAM, counting the ownership quantity only once per source and sink pair, and where the Market Participant is a CRR Account Holder assigned to the registered Counter-Party. |
| DAOBL *mp, (j, k), h* | MW | *Day-Ahead Obligation per Market Participant per source and sink pair per hour*—The number of Market Participant *mp*’s PTP Obligations with the source *j* and the sink *k* owned in the DAM for the hour *h*, and where the Market Participant is a CRR Account Holder.  |
| UDAOBL *mp* | MWh | *Uplift Day-Ahead Obligation per Market Participant*⎯The monthly total of Market Participant *mp*’s PTP Obligations owned in the DAM, counting the ownership quantity only once per source and sink pair, where the Market Participant is a CRR Account Holder assigned to the registered Counter-Party. |
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| UWSLTOT *mp* | MWh | *Uplift Metered Energy for Wholesale Storage Load at bus per Market Participant*⎯The monthly sum of Market Participant *mp*’s Wholesale Storage Load (WSL) energy metered by the Settlement Meter which measures WSL. |
| MEBL *mp, r, b* | MWh | *Metered Energy for Wholesale Storage Load at bus*⎯The WSL energy metered by the Settlement Meter which measures WSL for the 15-minute Settlement Interval represented as a negative value, for the Market Participant *mp*, Resource *r*, at bus *b*.  |
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| [NPRR1012: Insert the variables below upon system implementation of the Real-Time Co-Optimization (RTC) project:]

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| UDAASOAWD *mp* | MWh | *Uplift Day-Ahead Ancillary Service Only Award per Market Participant—*The monthly total of Market Participant *mp’s* Ancillary Service Only Offers awarded in DAM, where the Market Participant is a QSE assigned to the registered Counter-Party. |
| DARUOAWD *mp, h* | MW | *Day-Ahead Reg-Up Only Award per Market Participant*⎯The Reg-Up Only capacity quantity awarded in the DAM to the Market Participant *mp* for the hour *h*. |
| DARDOAWD *mp, h* | MW | *Day-Ahead Reg-Down Only Award per Market Participant*⎯The Reg-Down Only capacity quantity awarded in the DAM to the Market Participant *mp* for the hour *h*. |
| DARROAWD *mp, h* | MW | *Day-Ahead Responsive Reserve Only Award per Market Participant*⎯ The Responsive Reserve (RRS) Only capacity quantity awarded in the DAM to the Market Participant *mp* for the hour *h*. |
| DANSOAWD *mp, h* | MW | *Day-Ahead Non-Spin Only Award per Market Participant*⎯The Non-Spin Only capacity quantity awarded in the DAM to the Market Participant *mp* for the hour *h*. |
| DAECROAWD *mp, h* | MW | *Day-Ahead ERCOT Contingency Reserve Service Only Award per Market Participant*⎯The ERCOT Contingency Reserve Service (ECRS) Only capacity quantity awarded in the DAM to the Market Participant *mp* for the hour *h*. |

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| USOGTOT *mp* | MWh | *Uplift Real-Time Settlement Only Generator Site per Market Participant*—The monthly sum of Real-Time energy produced by Settlement Only Generators (SOGs) represented by Market Participant *mp*, where the Market Participant is a QSE assigned to the registered Counter-Party.

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| [NPRR995: Replace the definition above with the following upon system implementation:]*Uplift Real-Time Settlement Only Generator Site per Market Participant*—The monthly sum of Real-Time energy produced by Settlement Only Generators (SOGs), Settlement Only Distribution Generators (SODGs), Settlement Only Transmission Generators (SOTGs), Settlement Only Distribution Energy Storage Systems (SODESSs), or Settlement Only Transmission Energy Storage Systems (SOTESSs) represented by Market Participant *mp*, where the Market Participant is a QSE assigned to the registered Counter-Party. |

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| [NPRRR995: Insert the variable “USOCLTOT mp” below upon system implementation:]

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| USOCLTOT *mp* | MWh | *Uplift Real-Time Settlement Only Charging Load per Market Participant*—The monthly sum of Real-Time charging Load that is WSL by SODESSs and SOTESSs represented by Market Participant *mp*, where the Market Participant is a QSE assigned to the registered Counter-Party.  |

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| RTMGSOGZ *mp. p, i* | MWh | *Real-Time Metered Generation from Settlement Only Generators Zonal per QSE per Settlement Point*—The total Real-Time energy produced by Settlement Only Transmission Self-Generators (SOTSGs) for the Market Participant *mp* in Load Zone Settlement Point *p*, for the 15-minute Settlement Interval. MWh quantities for Energy Storage System (ESS), Settlement Only Distribution Generators (SODGs), and Settlement Only Transmission Generators (SOTGs) at sites where the ESS capacity constitutes more than 50% of the total SOG nameplate capacity will be included in this value. MWh quantities for SODGs and SOTGs that opted out of nodal pricing pursuant to Section 6.6.3.8, Real-Time Payment or Charge for Energy from a Settlement Only Distribution Generator (SODG) or a Settlement Only Transmission Generator (SOTG), will also be included in this value.

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| [NPRR995: Replace the definition above with the following upon system implementation:]*Real-Time Metered Generation from Settlement Only Generators Zonal per QSE per Settlement Point*—The total Real-Time energy produced by Settlement Only Transmission Self-Generators (SOTSGs) for the Market Participant *mp* in Load Zone Settlement Point *p*, for the 15-minute Settlement Interval. MWh quantities for Energy Storage System (ESS), SODGs, and SOTGs at sites where the ESS capacity constitutes more than 50% of the total SOG nameplate capacity will be included in this value. MWh quantities for SODGs and SOTGs that opted out of nodal pricing pursuant to Section 6.6.3.8, Real-Time Payment or Charge for Energy from a Settlement Only Distribution Generator (SODG), Settlement Only Transmission Generator (SOTG), Settlement Only Distribution Energy Storage System (SODESS), or Settlement Only Transmission Energy Storage System (SOTESS), will also be included in this value. |

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| MEBSOGNET *q, gsc* | MWh | *Net Metered energy at gsc for an SODG or SOTG Site*⎯The net sum for all Settlement Meters for SODG or SOTG site *gsc* represented by QSE *q*. A positive value indicates an injection of power to the ERCOT System.

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| [NPRR995: Replace the definition above with the following upon system implementation:]*Net Metered energy at gsc for an SODG, SOTG, SODESS, or SOTESS Site*⎯The net sum for all Settlement Meters for SODG, SOTG, SODESS, or SOTESS site *gsc* represented by QSE *q* for the 15-minute Settlement Interval. A positive value indicates an injection of power to the ERCOT System. |

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| [NPRRR995: Insert the variable “WSOL mp, gsc, b” below upon system implementation:]

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| WSOL *mp, gsc, b* | MWh | *WSL for an SODESS or SOTESS Site*⎯The WSL as measured for an for SODESS or SOTESS site *gsc* at Electrical Bus *b*, represented by the Market Participant *mp,* represented as a negative value, for the 15-minute Settlement Interval. |

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| *cp* | none | A registered Counter-Party. |
| *mp* | none | A Market Participant with MWh activity in the reference month that is a currently-registered QSE or CRR Account Holder or that voluntarily terminated its QSE or CRR Account Holder registration. |
| *j* | none | A source Settlement Point. |
| *k* | none | A sink Settlement Point. |
| *a* | none | A CRR Auction. |
| *p* | none | A Settlement Point. |
| *i* | none | A 15-minute Settlement Interval. |
| *h* | none | The hour that includes the Settlement Interval i.  |
| *r* | none  | A Resource.  |
| *gsc* | none | A generation site code. |
| *b* | none | An Electrical Bus. |

(3) The uplifted short-paid amount will be allocated to the Market Participants (QSEs or CRR Account Holders) assigned to a registered Counter-Party based on the pro-rata share of MWhs that the QSE or CRR Account Holder contributed to its Counter-Party’s maximum MWh activity ratio share.

(4) Any uplifted short-paid amount greater than $2,500,000 must be scheduled so that no amount greater than $2,500,000 is charged on each set of Default Uplift Invoices until ERCOT uplifts the total short-paid amount. ERCOT must issue Default Uplift Invoices at least 30 days apart from each other.

(5) ERCOT shall issue Default Uplift Invoices no earlier than 90 days following a short-pay of a Settlement Invoice on the date specified in the Settlement Calendar. The Invoice Recipient is responsible for accessing the Invoice on the MIS Certified Area once posted by ERCOT.

(6) Each Default Uplift Invoice must contain:

(a) The Invoice Recipient’s name;

(b) The ERCOT identifier (Settlement identification number issued by ERCOT);

(c) Net Amount Due or Payable – the aggregate summary of all charges owed by a Default Uplift Invoice Recipient;

(d) Run Date – the date on which ERCOT created and published the Default Uplift Invoice;

(e) Invoice Reference Number – a unique number generated by the ERCOT applications for payment tracking purposes;

(f) Default Uplift Invoice Reference – an identification code used to reference the amount uplifted;

(g) Payment Date and Time – the date and time that Default Uplift Invoice amounts must be paid;

(h) Remittance Information Details – details including the account number, bank name, and electronic transfer instructions of the ERCOT account to which any amounts owed by the Invoice Recipient are to be paid or of the Invoice Recipient’s account from which ERCOT may draw payments due; and

(i) Overdue Terms – the terms that would apply if the Market Participant makes a late payment.

(7) Each Invoice Recipient shall pay any net debit shown on the Default Uplift Invoice on the payment due date whether or not there is any Settlement and billing dispute regarding the amount of the debit.