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| NPRR Number | [1215](https://www.ercot.com/mktrules/issues/NPRR1215) | NPRR Title | Clarifications to the Day-Ahead Market (DAM) Energy-Only Offer Calculation |
| Date of Decision | | October 10, 2024 | |
| Action | | Recommended Approval | |
| Timeline | | Normal | |
| Estimated Impacts | | Cost/Budgetary: None  Project Duration: No project required | |
| Proposed Effective Date | | The first of the month following Public Utility Commission of Texas (PUCT) approval | |
| Priority and Rank Assigned | | Not applicable | |
| Nodal Protocol Sections Requiring Revision | | 4.4.10, Credit Requirement for DAM Bids and Offers | |
| Related Documents Requiring Revision/Related Revision Requests | | None | |
| Revision Description | | This Nodal Protocol Revision Request (NPRR) clarifies that the Day-Ahead Market (DAM) Energy-Only Offer credit exposure calculation zeros out negative values, with any zeroed out values being included in the calculation of the *dpth* percentile difference. This clarification aligns with how ERCOT has been performing the calculation since Nodal Go-Live. It also clarifies that the “absolute value” of negative prices is used to increase exposure when prices are negative. Finally, it incorporates a default e2 value in the Protocols, which is consistent with “Procedures for Setting Nodal Day Ahead Market (DAM) Credit Requirement Parameters,” which was an Other Binding Document (OBD) approved by the ERCOT Board of Directors in July of 2012. Although NPRR671, Incorporation of DAM Credit Parameters into Protocols, approved in April of 2015, attempted to incorporate that OBD into Protocols, it appears to have inadvertently not incorporated the default e2 value into the Protocols at that time. Finally, this NPRR clarifies the definitions of e-factors. | |
| 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 clarifies the calculation of the credit exposure of the DAM Energy-Only Offer. The current language could be read to imply that negative values are excluded from the calculation, but this is not the case. Negative values are set to zero and then included in the calculation.  It also clarifies that the “absolute value” of negative prices is used to increase exposure when prices are negative. As currently written, the Protocol language could inaccurately be read to mean that negative prices could decrease exposure, when the opposite is true.  This NPRR also incorporates the default e2 value of zero into the Protocols. As currently written, it is not clear that the formula in paragraph (6)(b)(i)(A) of Section 4.4.10 is only applied when favorable treatment is requested by a Market Participant, and that absent that request, it has been ERCOT’s practice since the outset to set e2 to zero.  Finally, this NPRR makes clarifications to the definition of e-factors. | |
| PRS Decision | | On 2/8/24, PRS voted unanimously to table NPRR1215 and refer the issue to the Credit Finance Sub Group (CFSG). All Market Segments participated in the vote.  On 5/9/24, PRS voted unanimously to recommend approval of NPRR1215 as amended by the 4/12/24 ERCOT comments. All Market Segments participated in the vote.  On 6/13/24, PRS voted unanimously to endorse and forward to TAC the 5/9/24 PRS Report and 1/23/24 Impact Analysis for NPRR1215. All Market Segments participated in the vote. | |
| Summary of PRS Discussion | | On 2/8/24, the sponsor provided an overview of NPRR1215.  On 5/9/24, participants noted the CFSG endorsement of the 4/12/24 ERCOT comments.  On 6/13/24, there was no discussion. | |
| TAC Decision | | On 6/24/24, TAC voted unanimously to recommend approval of NPRR1215 as recommended by PRS in the 6/13/24 PRS Report. All Market Segments participated in the vote.  On 8/28/24, TAC voted unanimously to table NPRR1215. All Market Segments participated in the vote.  On 9/19/24, TAC voted unanimously to recommend approval of NPRR1215 as recommended by TAC in the 6/24/24 TAC Report as amended by the 8/1/24 ERCOT comments as revised by TAC. All Market Segments participated in the vote. | |
| Summary of TAC Discussion | | On 6/24/24, there was no additional discussion beyond TAC review of the items below.  On 8/28/24, ERCOT Staff reviewed the 8/1/24 ERCOT comments and requested tabling of NPRR1215 for additional time to review questions raised by stakeholders which might require additional revisions to NPRR1215.  On 9/19/24, participants reviewed the 8/1/24 ERCOT comments and a desktop edit to clarify verbiage within paragraph (6)(e) of Section 4.4.10. | |
| 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 8/20/24, the ERCOT Board voted unanimously to remand NPRR1215 to TAC.  On 10/10/24, the ERCOT Board voted unanimously to recommend approval of NPRR1215 as recommended by TAC in the 9/19/24 TAC Report. | |

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| **Opinions** | |
| Credit Review | ERCOT Credit Staff and CFSG have reviewed NPRR1215 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 NPRR1215. |
| ERCOT Opinion | ERCOT supports approval of NPRR1215. |
| ERCOT Market Impact Statement | ERCOT Staff has reviewed NPRR1215 and believes the market impact for NPRR1215 is to clarify how ERCOT calculates credit exposure for bids and offers in the DAM. |

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| Sponsor | |
| Name | Curry Holden / Katherine Gross |
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| Company | ERCOT |
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| Cell Number |  |
| Market Segment | Not applicable |

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| **Market Rules Staff Contact** | |
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| **Comments Received** | |
| Comment Author | **Comment Summary** |
| CFSG 02234 | Requested PRS continue to table NPRR1215 for further review |
| ERCOT 041224 | Proposed additional clarifying edits based on CFSG discussions |
| CFSG 041824 | Endorsed NPRR1215 as amended by the 4/12/24 ERCOT comments |
| ERCOT 080124 | Proposed corrections to the 6/24/24 TAC Report and requested the ERCOT Board remand NPRR1215 to TAC for additional review |

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| Market Rules Notes |

Please note that the following NPRR(s) also propose revisions to Section 4.4.10:

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

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| Proposed Protocol Language Revision |

4.4.10 Credit Requirement for DAM Bids and Offers

(1) Each QSE’s ability to bid and offer in the DAM is subject to credit exposure from the QSE’s bids and offers being within the credit limit for DAM participation established for the entire Counter-Party of which the QSE is part, as specified in item (1) of Section 16.11.4.6.2, Credit Requirements for DAM Participation, and taking into account the credit exposure of accepted DAM bid and offers of the Counter-Party’s other QSEs.

(2) DAM bids and offers of all QSEs of the Counter-Party are accepted in the order submitted while ensuring that the credit exposure from accepted bids and offers do not exceed the Counter-Party’s credit limit for DAM participation.

(3) ERCOT shall reject the QSE’s individual bids and offers whose credit exposure, as calculated in item (6) below, exceeds the Counter-Party’s credit limit for DAM participation as described in items (1) and (2) above, and shall notify the QSE through the MIS Certified Area as soon as practicable.

(4) The QSE may revise and resubmit such rejected bids and offers described in item (3) above, provided that the resubmitted bids and offers are valid and within the Counter-Party’s credit limit for DAM participation adjusted for all accepted DAM bids and offers of the Counter-Party’s QSE’s limit and that such resubmission occurs prior to 1000 of the Operating Day.

(5) The DAM shall use the Counter-Party’s credit limit for DAM participation provided and adjusted for accepted bids and offers for DAM transactions cleared, until a new credit limit for DAM participation is available.

(6) ERCOT shall calculate credit exposure for bids and offers in the DAM as follows:

(a) For a DAM Energy Bid, the credit exposure shall be calculated as the quantity of the bid multiplied by a bid exposure price that is calculated as follows:

(i) If the price of the DAM Energy Bid is less than or equal to zero, the bid exposure price for that quantity will equal zero.

(ii) If the price of the DAM Energy Bid is greater than zero, the bid exposure price for that quantity will equal the greater of zero or the sum of (A) and (B):

(A) The lesser of:

(1) The *d*th percentile of the Day-Ahead Settlement Point Price (DASPP) for the hour over the previous 30 days; and

(2) The bid price.

(B) The value *e1* multiplied by (bid price minus (A)) when the bid price is greater than (A).

(1) The value *e1* is computed as the *ep1*th percentile of Ratio1 for the 30 days prior to the Operating Day, where Ratio1 is calculated daily as follows:

Ratio1 = Min[1, Max[0, (∑h=1,24 (DAM EOB Cleared *h, p* \* DASPP *h, p*  - DAM EOO Cleared *h, p* \* DASPP *h, p*- DAM TPO Cleared *h, p* \* DASPP *h, p*))/ (∑ h=1,24 (DAM EOB Cleared *h, p* \* DASPP *h, p*))]]

except Ratio1 = 1 when ∑*h*=1,24 (DAM EOB Cleared *h, p* \* DASPP *h, p* ) = 0

The above variables are defined as follows:

| Variable | Unit | Definition |
| --- | --- | --- |
| DAM EOB Cleared*h, p* | MWh | *DAM Energy Only Bids Cleared.* DAM Energy Only Bids Cleared for Operating Hour *h* at Settlement Point *p* |
| DAM EOO Cleared *h, p* | MWh | *DAM Energy Only Offers Cleared*. DAM Energy Only Offers Cleared for Operating Hour *h* at Settlement Point *p* |
| DAM TPO Cleared *h, p* | MWh | *DAM Three-Part Offers Cleared.* DAM Three-Part Offers Cleared for Operating Hour *h* at Settlement Point *p* |
| DASPP *h, p* | $/MWh | Day-Ahead Settlement Point Price for Operating Hour *h* at Settlement Point *p* |
| *h* | none | An Operating Hour. |
| *p* | none | A Settlement Point. |

(2) Default values are outlined in paragraph (10) below.

(3) A Counter-Party may request for favorable treatment as described in paragraph (7) below and, upon ERCOT agreeing to such request, ERCOT may adjust *e1* by changing the quantity of bids or offers to the values reported by the Counter-Party in paragraph (7) below or based on information available to ERCOT.

(iii) For DAM Energy Bids of curve quantity type, the credit exposure shall be the credit exposure, as calculated above, at the price and MW quantity of the bid curve that produces the maximum credit exposure for the DAM Energy Bid.

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| ***[NPRR1014: Replace paragraph (a) above with the following upon system implementation:]***  (a) For a DAM Energy Bid or for each MW portion of the bid portion of an Energy Bid/Offer Curve, the credit exposure shall be calculated as the quantity of the bid multiplied by a bid exposure price that is calculated as follows:  (i) If the price of the DAM Energy Bid or the price on the bid portion of an Energy Bid/Offer Curve is less than or equal to zero, the bid exposure price for that quantity will equal zero.  (ii) If the price of the DAM Energy Bid or the price on the bid portion of an Energy Bid/Offer Curve is greater than zero, the bid exposure price for that quantity will equal the greater of zero or the sum of (A) and (B):  (A) The lesser of:  (1) The *d*th percentile of the Day-Ahead Settlement Point Price (DASPP) for the hour over the previous 30 days; and  (2) The bid price.  (B) The value *e1* multiplied by (bid price minus (A)) when the bid price is greater than (A).  (1) The value *e1* is computed as the *ep1*th percentile of Ratio1 for the 30 days prior to the Operating Day, where Ratio1 is calculated daily as follows:  Ratio1 = Min[1, Max[0, (∑h=1,24 (DAM EOB Cleared *h, p* \* DASPP *h, p*  - DAM EOO Cleared *h, p* \* DASPP *h, p*- DAM TPO Cleared *h, p* \* DASPP *h, p*))/ (∑ h=1,24 (DAM EOB Cleared *h, p* \* DASPP *h, p*))]]  except Ratio1 = 1 when ∑*h*=1,24 (DAM EOB Cleared *h, p* \* DASPP *h, p* ) = 0  The above variables are defined as follows:   | Variable | Unit | Definition | | --- | --- | --- | | DAM EOB Cleared*h, p* | MWh | *DAM Energy Only Bids Cleared.* DAM Energy Only Bids Cleared for Operating Hour *h* at Settlement Point *p* | | DAM EOO Cleared *h, p* | MWh | *DAM Energy Only Offers Cleared*. DAM Energy Only Offers Cleared for Operating Hour *h* at Settlement Point *p* | | DAM TPO Cleared *h, p* | MWh | *DAM Three-Part Offers Cleared.* DAM Three-Part Offers Cleared for Operating Hour *h* at Settlement Point *p* | | DASPP *h, p* | $/MWh | Day-Ahead Settlement Point Price for Operating Hour *h* at Settlement Point *p* | | *h* | none | An Operating Hour. | | *p* | none | A Settlement Point. |   (2) Default values are outlined in paragraph (10) below.  (3) A Counter-Party may request for favorable treatment as described in paragraph (7) below and, upon ERCOT agreeing to such request, ERCOT may adjust *e1* by changing the quantity of bids or offers to the values reported by the Counter-Party in paragraph (7) below or based on information available to ERCOT.  (iii) For DAM Energy Bids or bid portions of Energy Bid/Offer Curves of curve quantity type, the credit exposure shall be the credit exposure, as calculated above, at the price and MW quantity of the bid curve that produces the maximum credit exposure for the DAM Energy Bid or bid portions of Energy Bid/Offer Curves. |

(b) For each MW portion of a DAM Energy-Only Offer:

(i) That has an offer price that is less than or equal to the *a*th percentile of the DASPP for the hour over the previous 30 days, the sum of (A) and (B) shall apply.

(A) Credit exposure will be:

(1) Reduced (when the *b*th percentile Settlement Point Price for the hour is positive). The reduction shall be the quantity of the offer multiplied by the *b*th percentile of the DASPP for the hour over the previous 30 days multiplied by the value *e2.*

(a) The value *e2* is computed as the *ep2*th percentile of Ratio2 for the 30 days prior to the Operating Day, where Ratio2 is calculated daily as follows:

Ratio2 = 1 -Max[0, (∑h=1,24 ((DAM EOO Cleared *h, p*+ DAM TPO Cleared *h, p*) - DAM EOB Cleared *h, p*)/(∑ h=1,24 (DAM EOO Cleared *h, p*+ DAM TPO Cleared *h, p*)))]

except Ratio2 = 0 when ∑ h=1,24 (DAM EOO Cleared *h, p*+ DAM TPO Cleared *h, p*)= 0

| Variable | Unit | Definition |
| --- | --- | --- |
| DAM EOB Cleared*h, p* | MWh | *DAM Energy Only Bids Cleared.* DAM Energy Only Bids Cleared for Operating Hour *h* at Settlement Point *p* |
| DAM EOO Cleared *h, p* | MWh | *DAM Energy Only Offers Cleared*. DAM Energy Only Offers Cleared for Operating Hour *h* at Settlement Point *p* |
| DAM TPO Cleared *h, p* | MWh | *DAM Three-Part Offers Cleared.* DAM Three-Part Offers Cleared for Operating Hour *h* at Settlement Point *p* |
| *h* | none | An Operating Hour. |
| *p* | none | A Settlement Point. |

(b) Default values are outlined in paragraph (10) below.

(c) A Counter-Party may request for favorable treatment as described in paragraph (7) below and, upon ERCOT agreeing to such request, Ratio2 is calculated at non zero value described above.

(d) ERCOT may adjust the value of *e2* by changing the quantity of bids or offers to the values reported by the Counter-Party in paragraph (7) below or based on information available to ERCOT; or

(2) Increased (when the *b*th percentile Settlement Point Price for the hour is negative). The increase shall be the quantity of the offer multiplied by the absolute value of the *b*th percentile of the DASPP for the hour over the previous 30 days.

(B) Credit exposure will be increased by the product of the quantity of the offer multiplied by the *dp*th percentile of the hourly difference between Real-Time Settlement Point Price and DASPP (where any negative differences are set to zero) over the previous 30 days for the hour multiplied by *e3*.

(ii) That has an offer price that is greater than the *a*th percentile of the DASPP for the hour over the previous 30 days, credit exposure will be increased by the product of the quantity of the offer multiplied by the *dp*th percentile of the hourly difference between Real-Time Settlement Point Price and DASPP (where any negative differences are set to zero) over the previous 30 days for the hour multiplied by *e3*.

(iii) ERCOT may, in its sole discretion, use a percentile other than the *dp*th percentile of the hourly difference between Real-Time Settlement Point Price and DASPP (where any negative differences are set to zero) over the previous 30 days in determining credit exposure per this paragraph (6)(b) in evaluating DAM Energy-Only Offers.

(c) For each MW portion of the Energy Offer Curve of a Three-Part Supply Offer:

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| ***[NPRR1014: Replace paragraph (c) above with the following upon system implementation:]***  (c) For each MW portion of the Energy Offer Curve of a Three-Part Supply Offer or for each MW portion of the offer portion of an Energy Bid/Offer Curve: |

(i) That has an offer price that is less than or equal to the *y*th percentile of the DASPP for the hour over the previous 30 days, credit exposure will be reduced (when the *z*th percentile Settlement Point Price is positive) or increased (when the *z*th percentile Settlement Point Price is negative) by the quantity of the offer multiplied by the absolute value of the *z*th percentile of the DASPP for the hour over the previous 30 days.

(ii) That has an offer price that is greater than the *y*th percentile of the DASPP for the hour over the previous 30 days, the credit exposure will be zero.

(iii) For a Combined Cycle Generation Resource with Three-Part Supply Offers for multiple generator configurations, the reduction in credit exposure will be the maximum credit exposure reduction created by the individual Three-Part Supply Offers’ Offer Curves (when the *z*th percentile Settlement Point Price is positive). If the Three-Part Supply Offer causes a credit increase (when the *z*th percentile Settlement Point Price is negative), the increase in credit exposure will be the maximum credit exposure increase created by the individual Three-Part Supply Offers.

(d) For PTP Obligation Bids:

(i) That have a bid price greater than zero, the sum of the quantity of the bid multiplied by the bid price, plus the *u*th percentile of the hourly positive price difference between the source Real-Time Settlement Point Price minus the sink Real-Time Settlement Point Price over the previous 30 days multiplied by the quantity of the bid.

(ii) That have a bid price less than or equal to zero, the *u*th percentile of the hourly positive price difference between the source Real-Time Settlement Point Price minus the sink Real-Time Settlement Point Price over the previous 30 days multiplied by the quantity of the bid.

(iii) Each tenth of a MW quantity (0.1 MW) of an expiring CRR for a Counter-Party can provide credit reduction for only one-tenth of a MW (0.1 MW) of a PTP Obligation bid for that Counter-Party.

(A) The QSE must submit the PTP Obligation bid at the same source and sink pair for the same hour, for the same operating date where the QSE submitting the PTP Obligation bid is represented by the same Counter-Party as the CRR Account Holder that is the owner of record for an expiring CRR, or group of CRRs.

(B) A portion or all of the PTP Obligation bid quantity must be less than or equal to the total of the quantity of all expiring CRRs at the specified source and sink pair and delivery period, less all valid previously submitted PTP Obligation bids at the specified source and sink pair and delivery period.

(iv) For qualified PTP Obligation bids with a bid price greater than zero, ERCOT shall reduce the credit exposure in paragraph (6)(d)(i) above as follows:

Credit Reduction = Reduction Factor \* min[PTP bid quantity, remaining expiring CRR MWs] \* bid price.

The Reduction Factor is *bd*%. The factor can be adjusted up or down at ERCOT’s sole discretion with at least two Bank Business Days’ notice. ERCOT may adjust this factor up with less notice, if needed. The expiring CRR may be PTP Options and/or PTP Obligations. If a QSE later cancels the PTP Obligation bid then the amount of exposure credited back to the Counter-Party will be treated as though this PTP Obligation bid was previously offset by expiring CRRs if a matching CRR source and sink pair exists up to the maximum expiring CRR quantity. If a QSE updates the PTP Obligation bid then it will be treated as a cancel followed by a new submission for purposes of credit exposure calculation. Outcome of this calculation is dependent of the sequence of submittals for updates and cancels.

(e) For PTP Obligation bids with Links to an Option with a bid price greater than zero:

Credit Exposure = (1- Reduction Factor *bd*) \* (bid quantity \* bid price)

(f) For Ancillary Service Obligations not self-arranged, the product of the quantity of Ancillary Service Obligation not self-arranged multiplied by the *t*th percentile of the hourly MCPC for that Ancillary Service over the previous 30 days for that hour. For negative Self-Arranged Ancillary Service Quantities, the absolute value of the product of the quantity of the negative Self-Arranged Ancillary Service Quantity times the *t*th percentile of the hourly MCPC for that Ancillary Service over the previous 30 days for that hour.

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| ***[NPRR1008 and NPRR1014: Insert applicable portions of paragraph (g) below upon system implementation of the Real-Time Co-Optimization (RTC) project for NPRR1008; or upon system implementation for NPRR1014; and renumber accordingly:]***  (g) For Ancillary Service Only Offers, credit exposure will be increased by the sum of the quantity of the Ancillary Service Only Offer multiplied by the *dp*th percentile of the positive hourly difference for that Ancillary Service between RTMCPC and DAMCPC for that Ancillary Service over the previous 30 days for the Operating Hour of the Ancillary Service Only Offer. |

(g) Values *e1*, *e2*, or *e3*, which are applicable to items (a) and (b) above, under conditions described below, will be determined and applied at ERCOT’s sole discretion. Within the application parameters identified below, ERCOT shall establish values for *e1*, *e2*, and *e3* and provide notice to an affected Counter-Party of any changes to *e1*, *e2*, or *e3* before 0900 generally two Bank Business Days prior to the normally scheduled DAM 1000 by a minimum of two of these methods: written, electronic, posting to the MIS Certified Area or telephonic. However, ERCOT may adjust any DAM credit parameter immediately if, in its sole discretion, ERCOT determines that the parameter(s) set for a Counter-Party do not adequately match the financial risk created by that Counter-Party’s activities in the market. ERCOT shall review the values for *e1*, *e2*, or *e3* for each Counter-Party no less than once every two weeks. ERCOT shall provide written or electronic notice to the Counter-Party of the basis for ERCOT’s assessment, or change of assessment, of the exposure adjustment variable established for the Counter-Party and the impact of the adjustment.

(i) The value of each exposure adjustment *e1*, *e2*, and *e3* is a value between zero and one, rounded to the nearest hundredth decimal place, set by ERCOT by Counter-Party. The values ERCOT establishes for *e1*, *e2*, and *e3* for a Counter-Party shall be applied equally to the portfolio of all QSEs represented by such Counter-Party.

(h) ERCOT must re-examine DAM credit parameters immediately if Counter-Party exceeds 90% of its Available Credit Limit (ACL) available to DAM.

(7) A Counter-Party may request more favorable parameters from ERCOT by agreeing to all of the conditions below:

(a) The Counter-Party shall notify ERCOT of any expected changes to Ratio1 or Ratio2, due to change in activity, as described below, and the likely duration of such change as soon as practicable, but no later than two Business Days in advance of the change:

(i) If Ratio1 as defined in paragraph (6)(a)(ii)(B) above is likely to be greater than the Counter-Party's currently assigned value of *e1* for particular day(s), then the estimated daily values of Ratio1 specifying the day(s) along with the daily DAM Energy Bid, Energy-Only Offer, and Three-Part Supply Offer quantity assumptions used to arrive at those values; and

(ii) If Ratio2 as defined in paragraph (6)(b)(i)(A)(1) above is likely to be lower than the Counter-Party's currently assigned value of *e2* for particular day(s), then the estimated daily values of Ratio2 specifying the day(s) along with the daily DAM Energy Bid, Energy-Only Offer, and Three-Part Supply Offer quantity assumption used to arrive at those values.

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| ***[NPRR1014: Replace paragraph (a) above with the following upon system implementation:]***  (a) The Counter-Party shall notify ERCOT of any expected changes to Ratio1 or Ratio2, due to change in activity, as described below, and the likely duration of such change as soon as practicable, but no later than two Business Days in advance of the change:  (i) If Ratio1 as defined in paragraph (6)(a)(ii)(B) above is likely to be greater than the Counter-Party's currently assigned value of *e1* for particular day(s), then the estimated daily values of Ratio1 specifying the day(s) along with the daily DAM Energy Bid, Energy-Only Offer, Energy Bid/Offer Curves, and Three-Part Supply Offer quantity assumptions used to arrive at those values; and  (ii) If Ratio2 as defined in paragraph (6)(b)(i)(A)(1) above is likely to be lower than the Counter-Party's currently assigned value of *e2* for particular day(s), then the estimated daily values of Ratio2 specifying the day(s) along with the daily DAM Energy Bid, Energy-Only Offer, Energy Bid/Offer Curves, and Three-Part Supply Offer quantity assumption used to arrive at those values. |

(b) ERCOT, in its sole discretion, will determine the adequacy of the disclosures made in item (a) above and may require additional information as needed to evaluate whether a Counter- Party is eligible for favorable treatment.

(c) ERCOT may change the requirements for providing information, as described in item (a) above, to ensure that reasonable information is obtained from Counter-Parties.

(d) ERCOT may, but is not required, to use information provided by a Counter-Party to re-evaluate DAM credit parameters and may take other information into consideration as needed.

(e) If ERCOT determines that information provided to ERCOT is erroneous or that ERCOT has not been notified of required changes, ERCOT may set all parameters for the Counter-Party to the default values with a possible adder on the e1 variable, at ERCOT's sole discretion, for a period of not less than seven days and until ERCOT is satisfied that the Counter-Party has and will comply with the conditions set forth in this Section. In no case shall the adder result in an e1 value greater than one.

(8) Beginning no later than 0800 and ending at 0945 each Business Day, ERCOT shall post to the MIS Certified Area, approximately every 15 minutes, each active Counter-Party’s remaining Available Credit Limit (ACL) for that day’s DAM and the time at which the report was run.

(9) After the DAM results are posted, ERCOT shall post once each Business Day on the MIS Certified Area each active Counter-Party’s calculated aggregate DAM credit exposure and its aggregate DAM credit exposure per transaction type, to the extent available, as it pertains to the most recent DAM Operating Day. The transaction types are:

(a) DAM Energy Bids;

(b) DAM Energy Only Offers;

(c) PTP Obligation Bids;

(d) Three-Part Supply Offers; and

(e) Ancillary Services.

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| ***[NPRR1008 and NPRR1014: Replace applicable portions of item (e) above with the following upon system implementation of the Real-Time Co-Optimization (RTC) project for NPRR1008; or upon system implementation for NPRR1014; and renumber accordingly:]***  (e) Ancillary Services related to Self-Arranged Ancillary Service Quantities;  (f) Ancillary Service Only Offers;  (g) Energy Bid/Offer Curves. |

(10) The parameters in this Section are defined as follows:

1. The default values of the parameters are:

| Parameter | **Unit** | **Current Value\*** |
| --- | --- | --- |
| *d* | percentile | 85 |
| *ep1* | percentile | 95 |
| *a* | percentile | 50 |
| *b* | percentile | 45 |
| *dp* | percentile | 90 |
| *ep2* | percentile | 0 |
| *e2* | value | 0 |
| *e3* | value | 1 |
| *y* | percentile | 45 |
| *z* | percentile | 50 |
| *u* | percentile | 90 |
| *bd* | % | 90 |
| *t* | percentile | 50 |
| \* The current value for the parameters referenced in this table above will be recommended by TAC and approved by the ERCOT Board. ERCOT shall update parameter values on the first day of the month following ERCOT Board approval unless otherwise directed by the ERCOT Board. ERCOT shall provide a Market Notice prior to implementation of a revised parameter value. | | |

1. The values of the parameters for Entities that meet the requirements in paragraph (7) above for more favorable treatment are:

| Parameter | **Unit** | **Current Value** |
| --- | --- | --- |
| *d* | percentile | 85 |
| *ep1* | percentile | 75 |
| *a* | percentile | 50 |
| *b* | percentile | 45 |
| *dp* | percentile | 90 |
| *ep2* | percentile | 25 |
| *e3* | value | 1 |
| *y* | percentile | 45 |
| *z* | percentile | 50 |
| *u* | percentile | 90 |
| *t* | percentile | 50 |
| \* The current value for the parameters referenced in this table above will be recommended by TAC and approved by the ERCOT Board. ERCOT shall update parameter values on the first day of the month following ERCOT Board approval unless otherwise directed by the ERCOT Board. ERCOT shall provide a Market Notice prior to implementation of a revised parameter value. | | |