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| NPRR Number | [938](http://www.ercot.com/mktrules/issues/NPRR938) | NPRR Title | Distribution Voltage Level Block Load Transfer (BLT) Compensation |
| Date Posted | April 26, 2019 |
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| Requested Resolution  | Normal |
| Nodal Protocol Sections Requiring Revision  | 6.6.3.5, Real-Time Payment for a Block Load Transfer Point |
| Related Documents Requiring Revision/Related Revision Requests | None |
| Revision Description | This Nodal Protocol Revision Request (NPRR) provides for the compensation of distribution voltage level Block Load Transfers (BLTs) that are instructed to switch from the ERCOT Control Area to a non-ERCOT Control area. |
| Reason for Revision |  Addresses current operational issues. Meets Strategic goals (tied to the [ERCOT Strategic Plan](http://www.ercot.com/content/news/presentations/2013/ERCOT%20Strat%20Plan%20FINAL%20112213.pdf) or directed by the ERCOT Board). Market efficiencies or enhancements Administrative Regulatory requirements Other: (explain)*(please select all that apply)* |
| Business Case | Currently, transmission voltage level BLTs are eligible for compensation when directed to leave ERCOT; however, distribution voltage level BLTs are not. Golden Spread Electric Cooperative, Inc. (“GSEC”) proposes this NPRR to allow for equal compensation treatment of all BLTs.  |

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| Proposed Protocol Language Revision |

**6.6.3.5 Real-Time Payment for a Block Load Transfer Point**

(1) ERCOT shall pay each QSE for the energy delivered to an ERCOT Load through a transmission voltage level Block Load Transfer (BLT) Point that is moved in response to an ERCOT Verbal Dispatch Instruction (VDI) during a declared Emergency Condition, from the ERCOT Control Area to a non-ERCOT Control Area. The payment for a given 15-minute Settlement Interval is calculated as follows:

**TBLTRAMT *q, blttp, p* = (-1) \* MAX {RTSPPEW *p*, (VEEPTBLTP *q, blttp*) *\** CABLT} \* TBLTR *q, p, blttp***

The above variables are defined as follows:

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| **Variable** | **Unit** | **Definition** |
| TBLTRAMT *q, blttp, p* | $ | *Transmission Block Load Transfer Resource Amount per QSE per Settlement Point per BLT Transmission Point*⎯The payment to QSE *q* for the transmission voltage level BLT Resource that delivers energy to Load Zone *p* through transmission voltage level BLT Point *blttp*, for the 15-minute Settlement Interval. |
| RTSPPEW *p* | $/MWh | *Real-Time Settlement Point Price per Settlement Point Energy-Weighted*⎯The Real-Time Settlement Point Price at Settlement Point *p*, for the 15-minute Settlement Interval, that is weighted by the state estimated Load of the Load Zone of each SCED interval within the 15-minute Settlement Internal. |
| VEEPTBLTP *q, blttp* | $/MWh | *Verified Emergency Energy Price at Transmission BLT Point*⎯The ERCOT verified cost for the energy delivered to an ERCOT Load through transmission voltage level BLT Point *blttp* during a declared Emergency Condition in ERCOT as determined by an ERCOT VDI. |
| CABLT | # | *Cost Adder for Block Load Transfer*⎯A multiplier of 1.10. |
| TBLTR *q, p, blttp* | MWh | *Transmission Block Load Transfer Resource per QSE per Settlement Point per Transmission BLT Point*⎯The energy delivered to an ERCOT Load in Load Zone *p* through transmission voltage level BLT Point *blttp* represented by QSE *q*, for the 15-minute Settlement Interval.  |
| *Q* | none | A QSE. |
| *P* | none | A Load Zone Settlement Point. |
| *Blttp* | none | A transmission voltage level BLT Point. |

(2) The total of the payments to each QSE for all energy delivered to ERCOT Loads through transmission voltage level BLT Points for the 15-minute Settlement Interval is calculated as follows:

**TBLTRAMTQSETOT *q* = TBLTRAMT *q, blttp, p***

The above variables are defined as follows:

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| --- | --- | --- |
| **Variable** | **Unit** | **Definition** |
| TBLTRAMTQSETOT *q* | $ | *Transmission Block Load Transfer Resource Amount QSE Total per QSE*⎯The total of the payments to QSE *q* for energy delivered into the ERCOT System through transmission voltage level BLT Points for the 15-minute Settlement Interval. |
| TBLTRAMT *q, blttp , p* | $ | *Transmission Block Load Transfer Resource Amount per QSE per Settlement Point per BLT Point*—The payment to QSE *q* for the BLT Resource at transmission voltage level BLT Point *blttp*, which delivers energy to Load Zone *p*, for the 15-minute Settlement Interval. |
| *Q* | none | A QSE. |
| *P* | none | A Load Zone Settlement Point. |
| *Blttp* | none | A transmission voltage level BLT Point. |

(3) ERCOT shall pay each QSE for the energy delivered to an ERCOT Load through a distribution voltage level Block Load Transfer (BLT) Point that is moved in response to an ERCOT declared Emergency Condition, from the ERCOT Control Area to a non-ERCOT Control Area. If 15-minute Settlement Interval data is unavailable, the payment for a given 15-minute Settlement Interval may be estimated using the last full 15-minute Settlement Interval prior to deployment and is calculated as follows:

**DBLTRAMT *q, bltdp, dp* = (-1) \* MAX {RTSPDPEW *dp*, (VEEPDBLTP *q, bltdp*) *\** CABLT} \* DBLTR *q, dp, bltdp***

The above variables are defined as follows:

|  |  |  |
| --- | --- | --- |
| **Variable** | **Unit** | **Definition** |
| DBLTRAMT *q, bltdp, dp* | $ | *Distribution Block Load Transfer Resource Amount per QSE per Delivery Point per the distribution voltage level BLT Point*⎯The payment to QSE *q* for the distribution voltage level BLT Resource that delivers energy to Load Zone *dp* through distribution voltage level BLT Delivery Point *bltdp.* |
| RTSPDPEW *dp* | $/MWh | *Real-Time Settlement Point Price per Delivery Point Energy-Weighted*⎯The Real-Time Settlement Point Price Delivery Point *dp*, for the last full 15-minute Settlement Interval prior to deployment, that is weighted by the state estimated Load of the Load Zone of each SCED interval within the 15-minute Settlement Interval. |
| VEEPDBLTP *q, bltdp* | $/MWh | *Verified Emergency Energy Price at Distribution Voltage Level BLT Point*⎯The ERCOT verified cost for the energy delivered to an ERCOT Load through a distribution voltage level BLT Point *bltdp* during a declared Emergency Condition in ERCOT. |
| CABLT | # | *Cost Adder for Block Load Transfer*⎯A multiplier of 1.10. |
| DBLTR *q, dp, bltdp* | MWh | *Distribution Block Load Transfer Resource per QSE per Delivery Point per Distribution Voltage Level BLT Point*⎯The energy delivered to an ERCOT Load in Load Zone *dp* through distribution voltage level BLT Point *bltdp* represented by QSE *q*, for the 15-minute Settlement Interval. For BLT’s that do not have Interval Data Recorder (IDR) metering, this will be approximated using the last full 15-minute Settlement Interval at the Delivery Point IDR meter prior to deployment.  |
| *Q* | none | A QSE. |
| *DP* | none | The Load Zone Delivery Point representative of the BLT Point. |
| *Bltdp* | none | A distribution voltage level BLT Point. |

(4)The total of the payments to each QSE for all energy delivered to ERCOT Loads through distribution voltage level BLT Points for the last full 15-minute Settlement Interval prior to deployment is calculated as follows:

**DBLTRAMTQSETOT *q* = DBLTRAMT *q, bltdp,d p***

The above variables are defined as follows:

|  |  |  |
| --- | --- | --- |
| **Variable** | **Unit** | **Definition** |
| DBLTRAMTQSETOT *q* | $ | *Distribution Voltage Level Block Load Transfer Resource Amount QSE Total per QSE*⎯The total of the payments to QSE *q* for energy delivered into the ERCOT System through distribution voltage level BLT Points for the last full 15-minute Settlement Interval prior to deployment. |
| DBLTRAMT *q, bltdp, dp* | $ | *Distribution Block Load Transfer Resource Amount per QSE per Delivery Point per Distribution Voltage Level BLT Point*—The payment to QSE *q* for the distribution voltage level BLT Resource at BLT Point *bltdp*, which delivers energy to Load Zone *dp*, for the 15-minute Settlement Interval.  |
| *Q* | none | A QSE. |
| *DP* | none | The Load Zone Delivery Point representative of the BLT Point. |
| *Bltdp* | none | A distribution voltage level BLT Point. |

(5) For the purpose of Settlement, ERCOT shall treat the energy associated with the Presidio Exception like energy delivered to an ERCOT Load through a BLT Point that is moved from the ERCOT Control Area to a non-ERCOT Control Area in response to a VDI during a declared Emergency Condition, by allowing for compensation of verified costs associated with the energy. After receipt and verification of the invoiced cost associated with the Presidio Exception, ERCOT shall compensate for the energy associated with the Presidio Exception using the monthly verified cost multiplied by the Cost Adder for Block Load Transfer defined in paragraph (1) above. ERCOT shall uplift the cost to QSEs representing Load using the monthly LRS per QSE as defined in Section 7.5.7, Method for Distributing CRR Auction Revenues. Costs associated with the Presidio Exception must be submitted to ERCOT within 90 days of the last day of the month that the costs were incurred.

(a) The monthly payment to be calculated as follows:

 **MBLTAMT *q, p* = (-1) \* VMEBLTP *q, p*  *\** CABLT**

The above variables are defined as follows:

|  |  |  |
| --- | --- | --- |
| **Variable** | **Unit** | **Definition** |
| MBLTAMT *q, p* | $ | *Monthly Block Load Transfer Amount per QSE per Settlement Point*⎯The payment to QSE *q* for the delivered energy to Load Zone *p* for the month. |
| VMEBLTP *q, p* | $/MWh | *Verified Monthly Energy Cost*⎯The ERCOT verified monthly cost for the energy delivered to an ERCOT Load as determined by an invoice submitted to ERCOT. |
| CABLT | # | *Cost Adder for Block Load Transfer*⎯A multiplier of 1.10. |
| *q* | none | A QSE. |
| *p* | none | A Load Zone Settlement Point. |

(b) The total of the payments to each QSE for all energy delivered to ERCOT Loads through BLT Points for the 15-minute Settlement Interval is calculated as follows:

 **MBLTAMTQSETOT *q* =  MBLTAMT *q, p***

The above variables are defined as follows:

|  |  |  |
| --- | --- | --- |
| **Variable** | **Unit** | **Definition** |
| MBLTAMTQSETOT *q* | $ | *Monthly Block Load Transfer Amount QSE Total per QSE*⎯The total of the payments to QSE *q* for energy delivered into the ERCOT System for the month. |
| MBLTAMT *q, p* | $ | *Monthly Block Load Transfer Amount per QSE per Settlement Point*⎯The payment to QSE *q* for the delivered energy to Load Zone *p* for the month. |
| *q* | none | A QSE. |
| *p* | none | A Load Zone Settlement Point. |

(c) ERCOT shall calculate each QSE’s monthly BLT charge as follows:

 **LAMBLTAMT *q* = (-1) \* MLRS *q*\* MBLTAMTTOT**

 **MBLTAMTTOT =  MBLTAMTQSETOT *q***

The above variables are defined as follows:

|  |  |  |
| --- | --- | --- |
| **Variable** | **Unit** | **Description** |
| MLRS *q* | none | *Monthly Load Ratio Share per QSE*—The LRS calculated for QSE *q* for the peak-Load 15-minute Settlement Interval in the month. See Section 6.6.2.2, QSE Load Ratio Share for a 15-Minute Settlement Interval. |
| MBLTAMTQSETOT *q* | $ | *Monthly Block Load Transfer Amount QSE Total per QSE*⎯The total of the payments to QSE *q* for energy delivered into the ERCOT System for the month. |
| LAMBLTAMT *q* | $ | *Load-Allocated Monthly BLT Amount* *per QSE*—Monthly BLT charge for QSE *q*. |
| MBLTAMTTOT  | $ | *Monthly BLT Amount ERCOT wide Total*—The total monthly BLT charge for all QSEs. |
| *q* | none | A QSE. |