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| Key Topic Concept (KTC) Number | 15.8 | KTC Title | 15.8 Grandfathering for Reactive Power Requirements specified in NPRR 989 (Energy Storage Resource Technical Requirements) |
| Date Posted | July 29, 2020 |
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| Executive Summary | NPRR 989 (Energy Storage Resource Technical Requirements) broadened the scope of existing Generation Resource VSS requirements to apply to ESRs and would also require ESRs to have the Reactive Power capability available at all MW levels when charging or discharging. This KTC recommends that ESRs that achieved Initial Synchronization before December 16, 2019 whose current design or implementation does not allow them to meet the Reactive Power requirements when charging are, to the extent of that inability, excused from providing Reactive Power capability when charging.  |
| Recommendation Description | This KTC recommends that Protocol language should be added so that the requirement for ESRs to have Reactive Power capability when charging does not apply to ESRs that achieved Initial Synchronization before December 16, 2019 (date NPRR 989 was submitted) to the extent they have demonstrated to ERCOT an inability to comply with that requirement. |
| BESTF Discussion  | On 7/23/2020, ERCOT staff presented the KTC document on the topic of Grandfathering for Reactive Power Requirements specified in NPRR 989 (Energy Storage Resource Technical Requirements). The BESTF reached consensus after a short discussion. |
| TAC Action Requested | BESTF plans to request at the 07/29/20 TAC meeting a vote to approve KTC 15-8. |
| TAC Action Summary | On 7/29/2020, TAC approved KTC 15.8 |

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| Proposed KTC Recommendation Language |

# *Key Topic/Concept recommendation Language for TAC Approval*

None.

# *Key Topic/Concept recommendation Language Previously APProved by tac*

07/29/20 TAC Meeting: (Consensus from 07/23/20 BESTF meeting):

KTC15 Item 8:

1. Per NPRR 989; Section 3.15 Voltage Support paragraph (2): “All Generation Resources (including self-serve generating units) and Energy Storage Resources (ESRs) that have a gross unit rating greater than 20 MVA or those units connected at the same Point of Interconnection (POI) that have gross unit ratings aggregating to greater than 20 MVA, that supply power to the ERCOT Transmission Grid, shall provide Voltage Support Service (VSS).”
2. Also per NPRR 989; Section 3.15 Voltage Support paragraph (4)(e): “For ESRs, the Reactive Power capability shall be available at all MW levels, when charging or discharging, and may be met through a combination of the ESR’s CURL, and/or dynamic VAr-capable devices.”
3. Protocol language should be added so that the requirement for ESRs to have Reactive Power capability when charging does not apply to ESRs that achieved Initial Synchronization before December 16, 2019 (date NPRR 989 was submitted) to the extent they have established via a notarized attestation to ERCOT that, since the date of Initial Synchronization, the ESR has been unable to comply with that requirement without physical or software changes/modifications.

# *Key Topic/Concept recommendation Language IN DISCUSSION AT BESTF*

None.

# *Future Decision Points and Issues for Developing Key topic/Concept recommendation Language*

None.

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| Applicable Protocol Section(s) |  |
| Impacted System(s) / Application(s) |  |