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| NOGRR Number | [208](http://www.ercot.com/mktrules/issues/nogrr208) | NOGRR Title | Related to NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions |
| Date of Decision | July 29, 2020 |
| Action | Recommended Approval |
| Timeline | Normal |
| Proposed Effective Date | Upon system implementation of Nodal Protocol Revision Request (NPRR) 1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions |
| Priority and Rank Assigned | Not applicable |
| Nodal Operating Guide Sections Requiring Revision  | 3.3, Resource Entities |
| Related Documents Requiring Revision/Related Revision Requests | NPRR1002Resource Registration Guide Revision Request (RRGRR) 023, Related to NPRR1002, BESTF-5 Energy Storage Resource Single Model Registration and Charging Restrictions in Emergency Conditions |
| Revision Description | This Nodal Operating Guide Revision Request (NOGRR) aligns the Nodal Operating Guide with the Nodal Protocols as modified by NPRR1002, except Section 4.5.3.3, EEA Levels, which an Alignment NOGRR will be filed following approval of NPRR1002 to align with the Protocols.  |
| Reason for Revision |  Addresses current operational issues. Meets Strategic goals (tied to the [ERCOT Strategic Plan](http://www.ercot.com/content/wcm/lists/144926/ERCOT_Strategic_Plan_2019-2023.pdf) or directed by the ERCOT Board). Market efficiencies or enhancements Administrative Regulatory requirements Other: (explain)*(please select all that apply)* |
| Business Case | This NOGRR supports the single model registration system proposed by NPRR1002, which will simplify and add clarity to the registration process for Resource Entities representing Energy Storage Resource (ESRs). These changes will apply during the combination model era and will also carry over to the single model era, which is scheduled to be implemented in mid-2024. |
| ROS Decision | On 6/4/20, ROS unanimously voted via roll call to recommend approval of NOGRR208 as submitted. All Market Segments were present for the vote.On 7/9/20, ROS unanimously voted via roll call to endorse and forward to TAC the 6/4/20 ROS Report and Impact Analysis for NOGRR208. All Market Segments were present for the vote. |
| Summary of ROS Discussion | On 6/4/20, there was no discussion.On 7/9/20, there was no discussion. |
| TAC Decision | On 7/29/20, TAC unanimously voted via roll call to recommend approval of NOGRR208 as recommended by ROS in the 7/9/20 ROS Report. All Market Segments were present for the vote.  |
| Summary of TAC Discussion | On 7/29/20, there was no discussion.  |
| ERCOT Opinion | ERCOT supports approval of NOGRR208. |

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| Market Segment | Not applicable |

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| Market Rules Notes |

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

* NOGRR196, Related to NPRR973, Add Definitions for Generator Step-Up and Main Power Transformer
	+ Section 3.3

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| Proposed Guide Language Revision |

**3.3 Resource Entities**

(1) The operation of a Generation Resource and Energy Storage Resource (ESR) shall conform to the requirements of the Protocols, North American Electric Reliability Corporation (NERC) Reliability Standards and these Operating Guides. As prescribed in Protocol Sections, 3.7.1.1, Generation Resource Parameters, 3.7.1.2, Load Resource Parameters, 3.7.1.3, Energy Storage Resource Parameters, and 3.10.7.2, Modeling of Resources and Transmission Loads, the Qualified Scheduling Entities (QSEs) and Resource Entities shall provide ERCOT and the Transmission Service Provider (TSP) with modeling information describing each Generation Resource, ESR, and Load Resource.

(2) As prescribed in Protocol Section 3.10.7.1.4, Transmission and Generation Resource Step-Up Transformers, Resource Entities will provide information on Generator Step-Up (GSU) transformers to TSPs.

(3) As prescribed in Protocol Sections 3.10.7.5, Telemetry Criteria, 6.5.5.2, Operational Data Requirements, and 8, Performance Monitoring, the QSE reporting for a Resource Entity shall provide operational information for generation facilities greater than 10 MW.

(4) At a minimum, a Resource Entity shall notify ERCOT and the QSE of the following:

(a) 60 days prior to implementation of any planned equipment changes that affect the reactive capability of an operating Generation Resource or ESR.

(b) Any such changes that decrease the reactive capability of the Generation Resource or ESR below the required level and changes that decrease the Voltage Ride-Through (VRT) capability of the Resource must be approved by ERCOT prior to implementation;

(c) As soon as practicable when high reactive loading or reactive oscillations on Generation Resources or ESRs are observed; and

(d) As soon as practicable when a Generation Resource or ESR trips Off-Line due to voltage or reactive problems.

(5) When scheduled to ERCOT, Resource Entities shall be staffed or monitored 24x7, by personnel capable of making operating decisions. Each Resource Entity shall designate an Authorized Representative as defined in Protocol Section 2.1, Definitions. This applies to all:

(a) Generation Resources or ESR greater than 10 MW; and

(b) Load Resources.

(6) The Resource Entity shall implement the following in a reliable and safe manner and in accordance with the switching procedure of the directly connected TSP:

(a) Synchronizing of the generation to the ERCOT System; and

(b) Transmission switchyard switching or clearances.

(7) Any Resource or Customer-owned switching device that can interrupt flow through network transmission equipment, 60 kV or greater in nominal voltage, must have an agreement with the Transmission Operator (TO) to schedule Outages on, and perform emergency switching of, the device.

(8) The Generation Resource or ESR specifically licensed by a federal regulatory agency shall, through its QSE representative, provide any applicable grid interconnection and performance licensing requirements to ERCOT and the TSP to which the licensee is connected.

(9) The TSP is obligated to incorporate any such licensing requirements into its planning and operations, and ERCOT shall support such requirements. Both ERCOT and the TSP will create necessary procedures for satisfying these requirements. Such procedures will include provisions to notify the facility licensee through its QSE of any requirements that cannot be satisfied.

(10) Any proposal for revision of this Operating Guide and the procedures incorporating the licensee requirements that would diminish the obligation or ability of ERCOT or the TSP to support these requirements shall be provided to the licensee through its QSE to afford it an opportunity for review and response. Any such proposal that is approved, as a result of which the licensee is required to implement changes to meet its license requirements or to seek amendment to its license, shall become effective no sooner than six months following the approval.

(11) Resource Entities must provide Resource-owned Transmission Elements data requirements as prescribed in Protocol Section 3.10.7, ERCOT System Modeling Requirements. Additional distribution voltage level devices and connectivity may be required as well to adequately represent the modeling of the Resource within ERCOT computer systems.