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| NPRR Number | [1105](http://www.ercot.com/mktrules/issues/NPRR1105) | NPRR Title | Option to Deploy Distribution Voltage Reduction Measures Prior to Energy Emergency Alert (EEA) |
| Impact Analysis Date | | November 22, 2021 | |
| Estimated Cost/Budgetary Impact | | Between $80k and $120k | |
| Estimated Time Requirements | | Phase 1:  No project required. This Nodal Protocol Revision Request (NPRR) can take effect upon Public Utility Commission of Texas (PUCT) prioritization and approval.  Phase 2:  The timeline for implementing this Nodal Protocol Revision Request (NPRR) is dependent upon Public Utility Commission of Texas (PUCT) prioritization and approval.  Estimated project duration: 6 to 9 months  See Comments | |
| ERCOT Staffing Impacts (across all areas) | | Implementation Labor: 73% ERCOT; 27% Vendor  Ongoing Requirements: No impacts to ERCOT staffing. | |
| ERCOT Computer System Impacts | | The following ERCOT systems would be impacted:   * Market Operation Systems 55% * Data Management & Analytic Systems 32% * Energy Management Systems 14% | |
| ERCOT Business Function Impacts | | ERCOT will update its business processes to implement this NPRR. | |
| Grid Operations & Practices Impacts | | ERCOT will update its grid operations and practices to implement this NPRR. | |

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| Evaluation of Interim Solutions or Alternatives for a More Efficient Implementation |
| None offered. |

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| Comments |
| Phase 1 will implement changes to the following Nodal Protocol sections:   * 6.5.9.4.1, General Procedures Prior to EEA Operations * 6.5.9.4.2, EEA Levels   Phase 2 will implement changes to the following Nodal Protocol section:   * 6.5.7.3.1, Determination of Real-Time On-Line Reliability Deployment Price Adder |