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| NPRR Number | [1164](https://www.ercot.com/mktrules/issues/NPRR1164) | NPRR Title | Black Start and Isochronous Control Capable Identification |
| Impact Analysis Date | | February 21, 2023 | |
| Estimated Cost/Budgetary Impact | | Between $75k and $125k | |
| Estimated Time Requirements | | 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 | |
| ERCOT Staffing Impacts (across all areas) | | Implementation Labor: 100% ERCOT; 0% Vendor  Ongoing Requirements: No impacts to ERCOT staffing. | |
| ERCOT Computer System Impacts | | The following ERCOT systems would be impacted:   * Grid Modeling Systems 46% * Energy Management Systems 38% * Resource Integration and Ongoing Operations (RIOO) 8% * Data Management & Analytic Systems 8% | |
| ERCOT Business Function Impacts | | ERCOT will update its business processes to implement this NPRR. | |
| Grid Operations & Practices Impacts | | No impacts to ERCOT grid operations and practices. | |

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

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| Comments |
| None. |