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| NPRR Number | [999](http://www.ercot.com/mktrules/issues/NPRR999) | NPRR Title | DC Tie Ramp Limitations |
| Impact Analysis Date | | August 28, 2020 | |
| Estimated Cost/Budgetary Impact | | Less than $5k, which will be absorbed by the Operations & Maintenance (O&M) budgets of affected department.  See Comments. | |
| Estimated Time Requirements | | No project required.  This Nodal Protocol Revision Request (NPRR) can take effect upon project implementation of the Intra-Hour Variability (iCAT) Tool. | |
| 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:   * Energy Management System (EMS) 100% | |
| ERCOT Business Function Impacts | | No impacts to ERCOT business functions. | |
| Grid Operations & Practices Impacts | | ERCOT will update 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 |
| NPRR999 implementation will be dependent on an internal ERCOT project. |