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| NPRR Number | [1007](http://www.ercot.com/mktrules/issues/nprr1007) | NPRR Title | RTC – NP 3: Management Activities for the ERCOT System |
| Impact Analysis Date | March 25, 2020 |
| Estimated Cost/Budgetary Impact | Between $50M and $55MSee Comments. |
| Estimated Time Requirements | The timeline for implementing this Nodal Protocol Revision Request (NPRR) is dependent upon ERCOT Board prioritization and approval. Please see the Project Priority List ([PPL](http://www.ercot.com/services/projects)) for additional information.Estimated project duration: 3.5 to 4.5 years |
| ERCOT Staffing Impacts (across all areas) | Implementation Labor: 76% ERCOT; 24% VendorOngoing Requirements: There will be ongoing operational impacts across the following ERCOT departments totaling 3.4 Full-Time Employees (FTEs) to support this NPRR:* Market Credit (0.1 FTE)
* EMMS Development (0.25 FTE)
* EMMS Production Support (1.6 FTE)
* Quality Assurance & Testing (0.2 FTE)
* IT Integration Support Services (0.5 FTE)
* Enterprise Information Services (0.25 FTE)
* Business Intelligence & Analytics (0.25 FTE)
* Commercial Application Services (0.25 FTE)

While most departments plan to absorb the impacts without additional staffing, EMMS Production Support may require up to two additional FTEs to support the incremental functionality and complexity of RTC. |
| ERCOT Computer System Impacts | The following ERCOT systems would be impacted:* Market Management Systems (MMS) 53%
* Energy Management System (EMS) 14%
* Integration 12%
* Data and Information Products (DAIP) 10%
* Market Settlements (S&B) 5%
* Other Impacted Systems 6%
	+ Network Model Management System (NMMS)
	+ Credit Monitoring and Management (CMM)
	+ Operator Training Simulator (OTS)
	+ CRM & Registration System (REG)
	+ Data Access & Transparency
	+ BI & Data Analytics
	+ Data Management
	+ External Public
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| ERCOT Business Function Impacts | ERCOT will update its business processes to implement this NPRR. |
| 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 |
| If approved, this Impact Analysis also covers system changes pertaining to the following Revision Requests: * Nodal Operating Guide Revision Request (NOGRR) 211, RTC - NOG 2 and 9: System Operations and Control Requirements and Monitoring Programs
* NPRR1008, RTC - NP 4: Day-Ahead Operations
* NPRR1009, RTC - NP 5: Transmission Security Analysis and Reliability Unit Commitment
* NPRR1010, RTC - NP 6: Adjustment Period and Real-Time Operations
* NPRR1011, RTC - NP 8: Performance Monitoring
* NPRR1012, RTC - NP 9: Settlement and Billing
* NPRR1013, RTC - NP 1, 2, 16, and 25: Overview, Definitions and Acronyms, Registration and Qualification of Market Participants, and Market Suspension and Restart
* Other Binding Document Revision Request (OBDRR) 020, RTC - Methodology for Setting Maximum Shadow Prices for Network and Power Balance Constraints
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