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| NPRR Number | 681 | NPRR Title | Clarifications to Dynamic Ratings | |
| Timeline | Normal | Action | | Tabled |
| Date of Decision | | February 12, 2015 | | |
| Proposed Effective Date | | To be determined. | | |
| Priority and Rank Assigned | | To be determined. | | |
| Nodal Protocol Sections Requiring Revision | | 3.10.8, Dynamic Ratings (for reference only)  3.10.8.1, Dynamic Ratings Delivered via ICCP  3.10.8.2, Dynamic Ratings Delivered via Static Table and Telemetered Temperature | | |
| Other Binding Documents Requiring Revision or Related Revision Requests | | None. | | |
| Revision Description | | This Nodal Protocol Revision Request (NPRR) adds clarification for Dynamic Ratings provided via Inter-Control Center Communications Protocol (ICCP). | | |
| Reason for Revision | | Addresses current operational issues.  Meets Strategic goals (tied to the [ERCOT Strategic Plan](http://www.ercot.com/content/news/presentations/2013/ERCOT%20Strat%20Plan%20FINAL%20112213.pdf) or directed by the ERCOT Board).  Market efficiencies or enhancements  Administrative  Regulatory requirements  Other: (explain)  *(please select all that apply)* | | |
| Credit Work Group Review | | To be determined. | | |
| Procedural History | | * On 1/28/15, NPRR681 and an Impact Analysis were posted. * On 2/12/15, PRS considered NPRR681. | | |
| PRS Decision | | On 2/12/15, PRS unanimously voted to table NPRR681 and refer the issue to the Reliability and Operations Subcommittee (ROS). All Market Segments were present for the vote. | | |
| Summary of PRS Discussion | | On 2/12/15, it was explained that NPRR681 aligns the Protocols with actual operations; and participants agreed that additional discussion at ROS would be beneficial. | | |

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| **Business Case** | |
| **Qualitative Benefits** | Data transparency enhancement | |
| **Quantitative Benefits** | Not applicable. | |
| **Impact to Market Segments** | Potential positive impact to Market Participants in the form of additional options on participating with Dynamic Ratings. | |
| **Credit Implications** | Not applicable. | |
| **Other** | Not applicable. | |

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| Market Segment | Not applicable. |

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| Proposed Protocol Language Revision |

3.10.8 Dynamic Ratings

(1) ERCOT shall use Dynamic Ratings, where available, in the Network Operations Model and the CRR Network Models.

(2) ERCOT shall use Dynamic Ratings in place of the Normal Rating, Emergency Rating and 15-Minute Rating as applicable as provided under paragraphs (a) or (b) below for Transmission Elements established in the Network Operations Model.

(a) A TSP may provide Dynamic Ratings via ICCP for implementation in the next Operating Hour. ERCOT shall use the Dynamic Ratings in its Supervisory Control and Data Acquisition (SCADA) alarming, Real Time Security Analysis, and SCED process. In addition, the TSP shall provide ERCOT with a table of equipment rating versus temperature for use in operational planning studies.

(b) Each TSP may alternatively elect to provide ERCOT with a table of equipment rating versus temperature and a temperature value in Real-Time for each Weather Zone in which the Transmission Element is located. ERCOT shall apply the table of temperature and rating relationships and ERCOT’s current temperature measurements to determine the rating of each such designated piece of equipment for each Operating Hour. ERCOT shall use the TSP-provided table in operational planning studies.

(3) Each Operating Hour, ERCOT shall post on the MIS Secure Area updated Dynamic Ratings adjusted for the current temperature.

(4) ERCOT may request that a TSP submit temperature-adjusted ratings on Transmission Elements that ERCOT identifies as contributing to significant congestion costs. Each TSP shall provide the additional ratings within two months of such a request using one of the two mechanisms for supplying temperature-adjusted ratings identified above. Ratings for Transmission Elements operated by multiple TSPs must be supplied by each TSP that has control. ERCOT shall use the most limiting rating and report the circumstance to the IMM.

3.10.8.1 Dynamic Ratings Delivered via ICCP

(1) The TSP shall supply the following, via ICCP, updated at least every ten minutes:

(a) Normal Rating; and

(b) Optionally Emergency Rating and/or 15-Minute Rating (required when Emergency Rating is provided).

(2) ERCOT shall link each provided line rating with the ERCOT Network Operations Model and implement the ratings for the next Operating Hour. ERCOT shall use the Dynamic Ratings in its SCADA alarming, real-time Security Analysis, and SCED process. When the telemetry is not operational, ERCOT shall use a temperature appropriate for current conditions, and employ the required Dynamic Rating lookup table to determine the appropriate rating.

3.10.8.2 Dynamic Ratings Delivered via Static Table and Telemetered Temperature

(1) ERCOT shall define a set of tables implementing the dynamic characteristics provided by the TSP(s) and as applicable, Resource Entity(s), of selected transmission lines, including:

(a) Line ID;

(b) From station;

(c) To station;

(d) Weather Zone(s);

(e) TSP(s) and Resource Entity(s); and

(f) Each of the three ratings: Normal Rating, Emergency Rating, and 15-Minute Rating.

(2) If a TSP is providing a current temperature for each applicable Weather Zone through SCADA telemetry then ERCOT shall determine the appropriate rating based upon the telemetered temperature, and adjust the Normal Rating, Emergency Rating, and 15-Minute Rating within five minutes of receipt for the next Operating Hour. ERCOT shall use the Dynamic Ratings in its SCADA alarming, real-time Security Analysis, and SCED process.