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| SCR Number | [813](http://www.ercot.com/mktrules/issues/SCR813) | SCR Title | NMMS Jointly-Rated Equipment Coordination Confirmation |
| Date of Decision | | August 27, 2021 | |
| Action | | Recommended Approval | |
| Timeline | | Normal | |
| Proposed Effective Date | | Upon system implementation | |
| Priority and Rank Assigned | | Priority – 2022; Rank – 3510 | |
| Supporting Protocol or Guide Sections/Related Documents | | Protocol Section 3.10, Network Operations Modeling and Telemetry | |
| System Change Description | | This System Change Request (SCR) modifies the Network Model Management System (NMMS) to highlight change submissions related to jointly-rated equipment. NMMS will display the jointly-rated equipment to the submitter and list other Entities which have also provided ratings. The submitter will be asked to confirm that the requested changes have been coordinated with the associated companies. Additional changes are requested to improve automated email notifications of these model changes. | |
| 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)* | |
| Business Case | | This modification will bring additional awareness to the submitter when proposed changes affect jointly-rated equipment. In doing so, it will reiterate the need to coordinate such changes with neighboring Entities. Added attention when the data is being provided to ERCOT can help to earlier mitigate data inconsistencies and avoid reliability or financial impacts in more Real-Time applications. | |
| PRS Decision | | On 4/15/21, PRS unanimously voted via roll call to table SCR813 and refer the issue to ROS. All Market Segments participated in the vote.  On 7/15/21, PRS unanimously voted via roll call to recommend approval of SCR813 as submitted. All Market Segments participated in the vote.  On 8/12/21, PRS unanimously voted via roll call to endorse and forward to TAC the 7/15/21 PRS Report and Revised Impact Analysis for SCR813 with a recommended priority of 2022 and rank of 3510. All Market Segments participated in the vote. | |
| Summary of PRS Discussion | | On 4/15/21, ERCOT Staff provided an overview of SCR813, and participants requested additional review by ROS.  On 7/15/21, there was no discussion.  On 8/12/21, there was no discussion. | |
| TAC Decision | | On 8/27/21, TAC unanimously voted via roll call to recommend approval of SCR813 as recommended by PRS in the 8/12/21 PRS Report. All Market Segments participated in the vote. | |
| Summary of TAC Discussion | | On 8/27/21, TAC reviewed the ERCOT Opinion and ERCOT Market Impact Statement for SCR813. | |
| ERCOT Opinion | | ERCOT supports approval of SCR813. | |
| ERCOT Market Impact Statement | | ERCOT Staff has reviewed SCR813 and believes the market impact for SCR813 improves situational awareness regarding jointly-rated equipment and helps earlier mitigate data inconsistencies. | |

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| Sponsor | |
| Name | Joel Koepke |
| E-mail Address | [Joel.Koepke@ercot.com](mailto:Joel.Koepke@ercot.com) |
| Company | ERCOT |
| Phone Number | 512-248-6589 |
| Cell Number |  |
| Market Segment | Not applicable |

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| **Market Rules Staff Contact** | |
| **Name** | Cory Phillips |
| **E-Mail Address** | [cory.phillips@ercot.com](mailto:cory.phillips@ercot.com) |
| **Phone Number** | 512-248-6464 |

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| **Comments Received** | |
| Comment Author | **Comment Summary** |
| ROS 050421 | Requested PRS continue to table SCR813 for review by the Network Data Support Working Group (NDSWG) |
| ROS 071221 | Endorsed SCR813 as submitted |

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| **Market Rules Notes** |

None

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| Proposed System Change |

**Issue:**

The ERCOT Network Model Management System (NMMS) is designed to accommodate multiple sets of ratings for transformers and line segments. More than one set is used when multiple Transmission and/or Distribution Service Providers (TDSPs) need to provide their own ratings to a device. This most often occurs when one TDSP service area interfaces with another. ERCOT applications take these ratings sets and use the most limiting values for the appropriate condition.

Through the course of normal business, TDSPs submit change requests to NMMS to update their companys’ ratings sets. If changes to jointly-rated lines are not coordinated between the different Entities then it is feasible that inaccurate values may remain in the modeling application eventually affecting downstream uses.

Furthermore, the existing automated notifications sent by NMMS are only sent to the owners and operators of the modeling objects being added/modified/deleted in each change request. Each ratings set is a different object owned by only one company. Therefore, for jointly-rated equipment, the other associated companies do not receive notification that a ratings set has been changed.

**Resolution:**

The requested NMMS change can be broken into two sections:

Prompt Confirming Coordination - Immediately prior to a change request submission the NMMS application will:

Determine if the requested changes are associated to jointly-rated equipment:

* If jointly-rated equipment is being modified, the submission form will:
  + Display identifying information of the affected jointly-rated equipment;
  + Display all companies providing ratings for the jointly-rated equipment;
  + Request confirmation, through the use of a checkbox or similar functionality, that coordination has been done by the submitting Entity; and
  + Disable final submission until coordination has been confirmed.
* If no jointly-rated changes are detected, the submission process will remain unchanged.

Enhanced Automated Email Notification – The NMMS application will be modified to have additional control over what triggers and who is sent automated notifications. The enhancement will enable the application to traverse the model hierarchy to find additional companies to notify. For example, if a TDSP changes a line’s ratings set, the submitter of the change as well as any other companies associated to the ACLineSegment would receive the notification.