|  |  |  |  |
| --- | --- | --- | --- |
| PGRR Number | [119](https://www.ercot.com/mktrules/issues/PGRR119) | PGRR Title | Stability Constraint Modeling Assumptions in the Regional Transmission Plan |
| Date of Decision | | March 6, 2025 | |
| Action | | Recommended Approval | |
| Timeline | | Normal | |
| Estimated Impacts | | Cost/Budgetary: None  Project Duration: No project required | |
| Proposed Effective Date | | The first of the month following Public Utility Commission of Texas (PUCT) approval | |
| Priority and Rank Assigned | | Not applicable | |
| Planning Guide Sections Requiring Revision | | 3.1.4.1.1, Regional Transmission Plan Cases | |
| Related Documents Requiring Revision/Related Revision Requests | | None | |
| Revision Description | | This Planning Guide Revision Request (PGRR) revises the Planning Guide to codify that a reliability margin consistent with expected operations procedures for the study period will be utilized when limits associated with a stability constraint are modeled in the Regional Transmission Plan reliability and economic base cases. | |
| Reason for Revision | | [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 1 – Be an industry leader for grid reliability and resilience  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 2 - Enhance the ERCOT region’s economic competitiveness with respect to trends in wholesale power rates and retail electricity prices to consumers  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 3 - Advance ERCOT, Inc. as an independent leading industry expert and an employer of choice by fostering innovation, investing in our people, and emphasizing the importance of our mission  General system and/or process improvement(s)  Regulatory requirements  ERCOT Board/PUCT Directive  *(please select ONLY ONE – if more than one apply, please select the ONE that is most relevant)* | |
| Justification of Reason for Revision and Market Impacts | | When stability constraints are modeled in the Regional Transmission Plan reliability and economic base cases, ERCOT currently applies a reliability margin on the stability constraint limits, which is consistent with ERCOT’s operating procedures. This PGRR clarifies and codifies the transmission planning assumptions related to the modeling of stability constraints in the Regional Transmission Plan base case. | |
| ROS Decision | | On 10/3/24, ROS voted unanimously to table PGRR119 and refer the issue to the Planning Working Group (PLWG). All Market Segments participated in the vote.  On 2/6/25, ROS voted unanimously to recommend approval of PGRR119 as amended by the 1/22/25 Joint Commenters comments. All Market Segments participated in the vote.  On 3/6/25, ROS voted unanimously to endorse and forward to TAC the 2/6/25 ROS Report and 9/9/24 Impact Analysis for PGRR119. All Market Segments participated in the vote. | |
| Summary of ROS Discussion | | On 10/3/24, participants reviewed PGRR119.  On 2/6/25, participants reviewed the 1/22/25 Joint Commenters comments and noted that the 1/22/25 Joint Commenters comments are responsive to the 11/6/24 OPUC comments.  On 3/6/25, there was no discussion. | |

|  |  |
| --- | --- |
| **Opinions** | |
| Credit Review | Not applicable |
| Independent Market Monitor Opinion | To be determined |
| ERCOT Opinion | To be determined |
| ERCOT Market Impact Statement | To be determined |

|  |  |
| --- | --- |
| Sponsor | |
| Name | Ping Yan |
| E-mail Address | [Ping.Yan@ercot.com](mailto:Ping.Yan@ercot.com) |
| Company | ERCOT |
| Phone Number | 512-248-4153 |
| Cell Number |  |
| Market Segment | Not Applicable |

|  |  |
| --- | --- |
| **Market Rules Staff Contact** | |
| **Name** | Brittney Albracht |
| **E-Mail Address** | [Brittney.Albracht@ercot.com](mailto:Brittney.Albracht@ercot.com) |
| **Phone Number** | 512-225-7027 |

|  |  |
| --- | --- |
| **Comments Received** | |
| **Comment Author** | **Comment Summary** |
| OPUC 110624 | Expressed concern that the proposed “reliability margin” is undefined and could have a significant cost impact; requested ERCOT provide additional comments to further amend Section 3.1.4.1.1 that clarify how it will develop the size of any proposed reliability margin for an Interconnection Reliability Operating Limit (IROL) |
| Joint Commenters 120224 | Clarified that operational practice is the source of the reliability margin to be used; removed “base” in reference to cases as both base and change cases should reflect appropriate margins in economic evaluations |
| Joint Commenters 012225 | Incorporated additional stakeholder and ERCOT Staff feedback to simplify language previously added in paragraph (7) of Section 3.1.4.1.1 to allow ERCOT Staff to incorporate quantifiable future system changes when known but does not impose a significant modeling burden if the impact of system changes on stability limits or margins is not clear |

|  |
| --- |
| Market Rules Notes |

Please note that the following PGRR(s) also propose revisions to the following section(s):

* PGRR118, Related to NPRR1246, Energy Storage Resource Terminology Alignment for the Single-Model Era
  + Section 3.1.4.1.1

|  |
| --- |
| Proposed Guide Language Revision |

**3.1.4.1.1 Regional Transmission Plan Cases**

(1) The starting base cases for the Regional Transmission Plan development are created by removing all Tier 1, 2, and 3 projects that have not received RPG acceptance or, if applicable, ERCOT endorsement from the most recent SSWG base cases.

(2) ERCOT shall set all non-seasonal Mothballed Generation Resources to out of service in the Regional Transmission Plan reliability base cases. ERCOT shall add proposed Generation Resources that have met the criteria for inclusion in Section 6.9, Addition of Proposed Generation to the Planning Models, to the Regional Transmission Plan base cases.

(3) ERCOT shall update the Regional Transmission Plan reliability and economic base cases to reflect any updates to the amount of Switchable Generation Resource (SWGR) capacity available to the ERCOT Region.

(4) ERCOT may, in its discretion, set a Generation Resource to out of service in the Regional Transmission Plan base cases prior to receiving a Notification of Suspension of Operations (NSO) if the Resource Entity notifies ERCOT of its intent to retire/mothball the Generation Resource and/or makes a public statement of its intent to retire/mothball the Generation Resource. ERCOT must provide reasonable advance notice to the RPG of any proposed Generation Resource retirements/mothballs and allow an opportunity for stakeholder comments.

(a) ERCOT will post and maintain the current list of Generation Resources that will be set to out of service pursuant to paragraph (4) above on the ERCOT website.

(5) In its Regional Transmission Plan studies, ERCOT shall first consider transmission needs without Remedial Action Scheme (RAS) actions. After evaluating these needs, ERCOT may model a RAS in the Regional Transmission Plan cases only if ERCOT’s initial studies did not identify a transmission project to exit the RAS or if a transmission project to exit the RAS is not expected to be in service by the season and year the case represents.

|  |
| --- |
| ***[PGRR113: Replace paragraph (5) above with the following upon system implementation of NPRR1198:]***  (5) In its Regional Transmission Plan studies, ERCOT shall first consider transmission needs without Remedial Action Scheme (RAS) or Constraint Management Plan (CMP) actions. After evaluating these needs, ERCOT may model a RAS or CMP in the Regional Transmission Plan cases only if ERCOT’s initial studies did not identify a transmission project to exit the RAS or CMP, or if a transmission project to exit the RAS or CMP is not expected to be in service by the season and year the case represents. |

(6) ERCOT may, in its discretion, make other adjustments to any Regional Transmission Plan base case to ensure that the case reaches a solution. ERCOT must provide reasonable advance notice to the RPG of any proposed adjustments and an opportunity for stakeholder comment on them.

(7) ERCOT shall apply a reliability margin on applicable Interconnection Reliability Operating Limits (IROLs) and/or stability-related System Operating Limits (SOLs), consistent with the ERCOT operating procedures when such limits are modeled in the Regional Transmission Plan reliability and economic cases. ERCOT shall use the current operating limit with reliability margin applied or best available information in determining the appropriate modeled limit for the future year being evaluated.