|  |  |  |  |
| --- | --- | --- | --- |
| PGRR Number | [112](https://www.ercot.com/mktrules/issues/PGRR112) | PGRR Title | Dynamic Data Model and Full Interconnection Study (FIS) Deadline for Quarterly Stability Assessment |
| Date of Decision | | October 5, 2023 | |
| Action | | Tabled | |
| Timeline | | Normal | |
| Proposed Effective Date | | To be determined | |
| Priority and Rank | | To be determined | |
| Planning Guide Sections Requiring Revision | | 5.3.5, ERCOT Quarterly Stability Assessment | |
| Related Documents Requiring Revision/Related Revision Requests | | None | |
| Revision Description | | This Planning Guide Revision Request (PGRR) establishes requirements for Interconnecting Entities (IEs) to submit dynamic data models and for Transmission Service Providers (TSPs) to submit final Full Interconnection Studies (FISs) for approval at least 30 Business Days prior to the quarterly stability assessment deadline. Projects will not be qualified for the quarterly stability assessment if dynamic data models and final FISs are submitted less than 30 Business Days prior to the deadline. | |
| Reason for Revision | | Addresses current operational issues.  Meets Strategic goals (tied to the [ERCOT Strategic Plan](https://www.ercot.com/files/docs/2018/12/13/ERCOT_Strategic_Plan_2019-2023.pdf) or directed by the ERCOT Board).  Market efficiencies or enhancements  Administrative  Regulatory requirements  Other: (explain)  *(please select all that apply)* | |
| Business Case | | In accordance with Sections 5, Generator Interconnection or Modification and 6, Data/Modeling, Interconnection Entities (IEs) must submit dynamic data models and model quality test reports for approval ahead of the quarterly stability assessment deadlines established in paragraph (2) of Section 5.3.5.  Paragraph (4)(b)(i) of Section 5.3.5 recommends that the IE submit dynamic data models 30 days prior to the quarterly stability assessment deadline. However, in most cases, IEs submit or update the models only a week or two prior to the deadline, leaving ERCOT with a limited time period for reviewing such models. Additionally, TSPs have sometimes submitted FIS studies only a week or two before the quarterly stability assessment deadline, leaving ERCOT little time to review the study results before the deadline.  Market Participants have raised concerns with their dynamic data models not being evaluated in time for them to address comments prior to the quarterly stability assessment deadline.  This PGRR addresses Market Participant and ERCOT concerns by requiring the dynamic data model and final FISs to be submitted at least 30 Business Days prior to the quarterly stability assessment deadline. This will provide ERCOT with sufficient time to review the submissions and send comments to the IE and will also provide the IE with sufficient time to address comments prior to the quarterly stability assessment deadline. | |
| ROS Decision | | On 10/5/23, ROS voted unanimously to table PGRR112 and refer the issue to the Planning Working Group (PLWG) and Dynamics Working Group (DWG). All Market Segments participated in the vote. | |
| Summary of ROS Discussion | | On 10/5/23, ERCOT Staff presented PGRR112. Participants highlighted areas for potential improvements to the proposed language to provide clarity and referred PGRR112 to the PLWG and DWG for further 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 | Jenifer Fernandes |
| E-mail Address | [Jenifer.Fernandes@ercot.com](mailto:Jenifer.Fernandes@ercot.com) |
| Company | ERCOT |
| Phone Number | 512-248-4560 |
| Cell Number |  |
| Market Segment | Not Applicable |

|  |  |
| --- | --- |
| **Market Rules Staff Contact** | |
| **Name** | Erin Wasik-Gutierrez |
| **E-Mail Address** | erin.wasik-gutierrez@ercot.com |
| **Phone Number** | 413-886-2474 |
|  |  |
| **Comments Received** | |
| **Comment Author** | **Comment Summary** |
| None |  |
|  |  |
| **Market Rules Notes** | |

Please note the baseline Guide language in Section 5.3.5 was updated to include paragraphs (5) and (6) which were inadvertently omitted in the original submission of this PGRR.

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

5.3.5 ERCOT Quarterly Stability Assessment

(1) ERCOT shall conduct a stability assessment every three months to assess the impact of planned large generators connecting to the ERCOT System. The assessment shall derive the conditions to be studied with consideration given to the results of the FIS stability studies for large generators, with planned Initial Synchronization in the period under study. ERCOT may study conditions other than those identified in the FIS stability studies.

(2) Large generators that are not included in the assessment as described in this Section as result of the IE failing to meet the prerequisites by the deadlines as listed in the table below will not be eligible for Initial Synchronization during that three-month period. The timeline for the quarterly stability assessment shall be in accordance with the following table:

|  |  |  |
| --- | --- | --- |
| **Generator Initial Synchronization Date** | **Last Day for an IE to meet prerequisites as listed in paragraph (4) below** | **Completion of Quarterly Stability Assessment** |
| Upcoming January, February, March | Prior August 1 | End of October |
| Upcoming April, May, June | Prior November 1 | End of January |
| Upcoming July, August, September | Prior February 1 | End of April |
| Upcoming October, November, December | Prior May 1 | End of July |

(3) If the last day for an IE to meet prerequisites or if completion of the quarterly stability assessment as shown in the above table falls on a weekend or holiday, the deadline will extend to the next Business Day.

(4) Prerequisites to be satisfied prior to the large generator being included in the quarterly stability assessment:

(a) The generator has met the requirements of Section 6.9, Addition of Proposed Generation to the Planning Models.

(b) The IE has provided all generator data in accordance with the Resource Registration Glossary, Planning Model column, including but not limited to steady state, system protection and stability models.

(i) The dynamic data model will be reviewed by ERCOT prior to the quarterly stability assessment and shall be submitted by the IE at least 30 Business Days before the quarterly stability assessment deadline. If either the IE does not submit the required dynamic data model at least 30 Business Days before the quarterly stability assessment or if this review cannot be completed prior to the quarterly stability assessment deadline, ERCOT may refuse to allow Initial Synchronization of the Generation Resource or Settlement Only Generator (SOG) in the three-month period associated with the quarterly stability assessment deadline. ERCOT shall include the Generation Resource or SOG in the next quarterly stability assessment period provided that the review of the dynamic data model has been completed prior to the next quarterly stability assessment’s deadline.

(c) The following elements must be complete:

(i) Final FIS studies, which the TSP must have submitted in the online RIOO system at least 30 Business Days prior to the quarterly stability assessment deadline;

(ii) Reactive Power Study; and

(iii) System improvements or mitigation plans that were identified in these studies as required to meet the operational standards established in the Protocols, Planning Guide, Nodal Operating Guides, and Other Binding Documents prior to synchronizing the generator.

(d) The data used in the studies identified in paragraph (4)(c) above is consistent with data submitted by the IE as required by Section 6.9.

(5) At any time following the inclusion of a large generator in a stability assessment, but before the Initial Synchronization of the generator, if ERCOT determines, in its sole discretion, that the generator no longer meets the prerequisites described in paragraph (4), or that an IE has made a change to the design of the generator that could have a material impact on ERCOT System stability, then ERCOT may refuse to allow Initial Synchronization of the generator, provided that ERCOT shall include the generator in the next quarterly stability assessment period that commences after identification of the material change or after the generator meets the prerequisites specified in paragraph (4), as applicable. If ERCOT determines, in its sole discretion, that the change to the design of the generator would not have a material impact on ERCOT System stability, then ERCOT may not refuse to allow Initial Synchronization of the generator due to this change.

(6) ERCOT shall post to the MIS Secure Area a report summarizing the results of the quarterly stability assessment within ten Business Days of completion.