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| PGRR Number | [126](https://www.ercot.com/mktrules/issues/PGRR126) | PGRR Title | Related to NPRR1284, Guaranteed Reliability Load Process |
| Date Posted | | May 12, 2025 | |
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| Requested Resolution | | Normal | |
| Planning Guide Sections Requiring Revision | | 4.1.1.1, Planning Assumptions  4.1.1.9, Guaranteed Reliability Loads (new)  7.1, Planning Data and Information | |
| Related Documents Requiring Revision/Related Revision Requests | | Nodal Protocol Revision Request (NPRR) 1284, Guaranteed Reliability Load Process | |
| Revision Description | | This Planning Guide Revision Request (PGRR) details how Guaranteed Reliability Loads (GRLs), as defined in the related NPRR1284, shall be incorporated into ERCOT planning studies. | |
| 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 | | The bridging solution created by this PGRR and related NPRR should allow more Loads to connect prior to the completion of the complete list of projects studied allowing the Load to leverage their flexibility with a faster interconnection while maintaining system reliability. | |

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| **Market Rules Notes** |

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

* PGRR115, Related to NPRR1234, Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater
  + Section 4.1.1.1

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| Proposed Guide Language Revision |

4.1.1.1 Planning Assumptions

(1) A contingency loss of an element includes the loss of an element with or without a single line-to-ground or three-phase fault.

(2) A common tower outage is the contingency loss of a double-circuit transmission line consisting of two circuits sharing a tower for 0.5 miles or greater.

(3) Unavailability of a single generating unit includes an entire Combined Cycle Train, if no part of the train can operate with one of the units Off-Line as provided in the Resource Registration data.

(4) The contingency loss of a single generating unit shall include the loss of an entire Combined Cycle Train, if that is the expected consequence.

(5) The following assumptions may be applied to planning studies:

(a) Reasonable variations of load forecast, including forecasted load growth based on Substantiated Load;

(b) Reasonable variations of generation commitment and dispatch applicable to transmission planning analyses on a case-by-case basis may include, but are not limited to, the following methods:

(i) Production cost model simulation, security constrained optimal power flow, or similar modeling tools that analyze the ERCOT System using hourly generation dispatch assumptions;

(ii) Modeling of high levels of intermittent generation conditions; or

(iii) Modeling of low levels of or no intermittent generation conditions.

(6) Assumed Direct Current Tie (DC Tie) imports and exports will be curtailed as necessary to meet reliability criteria in planning studies.

(7) Manual System Adjustments shall not increase the amount of consequential load loss following a common tower outage, or the contingency loss of a single generating unit, transmission circuit, transformer, shunt device, flexible alternating current transmission system (FACTS) device, or DC Tie Resource or DC Tie Load, with or without a single line-to-ground fault.

(8) For the purposes of planning studies, Loads designated as Guaranteed Reliability Loads (GRLs) pursuant to Section 4.1.1.9, Guaranteed Reliability Loads, shall be reduced to the minimum Load level specified in their Guaranteed Reliability Load Operating Agreement (Protocol Section 23, Form T) as part of any Manual System Adjustment applied prior to evaluating system performance for contingency events. The adjusted Load level shall be treated as the steady-state Load level for the purposes of assessing compliance with the performance criteria described in Section 4.1.1.2, Reliability Performance Criteria, and Section 4.1.1.8, Maintenance Reliability Criteria.

4.1.1.9 Guaranteed Reliability Loads

(1) A Guaranteed Reliability Load (GRL) is a Load with a maximum Demand of 75 MW or greater, that has entered into a written agreement with ERCOT and the applicable Transmission Service Provider (TSP) specifying a maximum level of Load to be maintained during defined contingency or maintenance conditions (Protocol Section 23, Form T, Guaranteed Reliability Load Operating Agreement), in exchange for exemption from system upgrades that would otherwise be required to support full Load under all planning criteria.

(2) The agreement shall specify:

(a) The maximum Load level, in MW, that will be maintained under applicable Manual System Adjustments;

(b) The triggering conditions or categories of contingency events under which the Load shall be reduced or self-supplied;

(c) The mechanism by which the Load will be reduced, including any automatic or manual Remedial Action Scheme (RAS); and

(d) Any telemetry, control, or modeling data requirements necessary for ERCOT and the TSP to enforce and validate compliance.

(3) During the performance of planning studies, the Load serving Entity (LSE) and TSP shall assume the reduced Load level described in the agreement as the applicable steady-state value following any Manual System Adjustment applied under paragraph (8) of Section 4.1.1.1, Planning Assumptions.

(4) The planned interruption or curtailment of a GRL shall not be considered non-consequential Load loss for the purposes of evaluating compliance with Section 4.1.1.2 or Section 4.1.18, provided the conditions of the agreement are met.

(5) GRLs shall be clearly identified in the applicable planning models, and ERCOT may require the submission of supporting documentation, including contracts, schematics, and operating instructions, to verify study assumptions.

(6) Any change to the contracted Load level, curtailment scheme, or operating conditions shall require review and approval by ERCOT and the applicable TSP, and may trigger the need for updated planning studies.

(7) ERCOT and the applicable TSP shall monitor GRLs for compliance with the contractual conditions governing Load reduction or self-supply during applicable contingency or maintenance scenarios. This monitoring may include review of SCADA data, breaker status, generation telemetry, and Load profile records.

(8) ERCOT may request from the Load Serving Entity (LSE) documentation verifying that the Load was reduced or self-supplied in accordance with the applicable agreement during real-time or historical system events that align with the defined triggering conditions. The LSE shall provide such documentation within ten Business Days of ERCOT’s request, or within a timeframe specified by ERCOT in its notice.

(9) Failure to comply with the contractual terms governing a GRL, including failure to reduce Load when required or providing false or incomplete data, may result in ERCOT revoking the GRL designation and reclassifying the Load as firm for planning and operational purposes. ERCOT may also require the LSE and TSP to perform revised planning studies to determine whether additional Transmission Facilities are necessary to support continued interconnection.

***7.1 Planning Data and Information***

(1) The information available on the ERCOT website or applicable Market Information System (MIS) (i.e., Secure or Certified Areas) includes, but is not limited to, planning information pertaining to the following:

(a) Long-term planning;

(b) Regional transmission planning;

(c) Steady state data;

(d) Resource integration;

(e) Case studies and files used in planning;

(f) Model information; and

(g) Data and information available to specific groups of Market Participants.

(i) Market Participants with a nondisclosure agreement with ERCOT have designated sections on the MIS that allow access to the certified posting of group information.

(ii) Market Participants may access the artifacts posted for their respective groups on the MIS Secure Area.

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| ***[PGRR116: Insert paragraph (h) below upon system implementation of NPRR1240:]***  (h) Information on the ERCOT website pertaining to energy and demand shall include monthly reports with 15-minute interval data. |

(2) The list below includes both data set and designated classification of the available planning data and information. Where the information is classified as “Certified,” the appropriate Market Participant category or group is “(all TSPs)” to indicate all Transmission Service Providers (TSPs) or “(PDCWG members)” to indicate members of the Performance, Disturbance, Compliance Working Group (PDCWG).

| **Data Set** | **Classification** |
| --- | --- |
| Aggregated Wind Output | ERCOT website |
| Annual Planning Model Data Submittal Schedule | Secure |
| Demand and Energy Monthly Reports | Secure |
| Dynamic Data Information | Certified (all TSPs) |
| Economic Studies of Transmission Projects for New Generation | Secure |
| ERCOT Long-Term System Assessment (LTSA) (except for Protected Information) | Secure |
| ERCOT LTSA | Certified (all TSPs) |
| ERCOT Steady State Planning Contingency Files | Secure |
| ERCOT System Operating Limit (SOL) Methodology | ERCOT website |
| Generation Data Forms | Secure |
| Generator Interconnection Status (GIS) Report | ERCOT website |
| Geomagnetically-Induced Current ([GIC) Flow Information](https://mis.ercot.com/secure/data-products/grid/regional-planning?id=PG3-953-M) | Secure |
| Geomagnetic Disturbance (GMD) Vulnerability Assessment Postings (except for Protected Information) – includes ERCOT Critical Energy Infrastructure Information (ECEII) | Secure |
| GMD Vulnerability Assessment Postings – includes ECEII and Protected Information | Certified (all TSPs) |
| GMD Vulnerability Assessment Postings (redacted) – excludes ECEII and Protected Information | ERCOT website |
| Documents Initiating a Generation Interconnection or Change Request (GINR) | Certified (all TSPs) |
| GINR Security Screening Studies and Supporting Documents | Secure |
| Guaranteed Reliability Loads (GRLs) and associated limiting contingencies | Certified (all TSPs) |
| Sub-synchronous Oscillation Studies and Supporting Documents | Certified (all TSPs) |
| Full Interconnection Study (FIS): Steady-State, System Protection, Stability, and Facility Studies and Supporting Documents (except for Protected Information) | Secure |
| FIS: Draft Steady-State, System Protection, Stability, and Facility Studies and Supporting Documents | Certified (all TSPs) |
| Independent Market Monitor (IMM) and Topology Processor Supporting Documents | Certified (all TSPs) |
| Performance, Disturbance, Compliance Working Group (PDCWG) Group Documents and Project Files | Certified (PDCWG members) |
| Public Generation Information | ERCOT website |
| Remedial Action Plan (RAP) Review Cases | Certified (all TSPs) |
| Resource Registration Data | Certified (all TSPs) |
| Regional Planning Group Projects | Secure |
| Regional Transmission Plan Postings (except for Protected Information) – includes ERCOT Critical Energy Infrastructure Information (ECEII) | Secure |
| Regional Transmission Plan Postings – includes ECEII and Protected Information | Certified (all TSPs) |
| Regional Transmission Plan Postings (redacted) – excludes ECEII and Protected Information | ERCOT website |
| Seasonal Voltage Profile Studies | Certified (all TSPs) |
| Special Planning Studies (except for Protected Information) | Secure |
| Special Planning Studies | Certified (all TSPs) |
| Steady State Power Flow Base Cases | Secure |
| Steady State Power Flow Case Data | Certified (all TSPs) |
| Steady State Topology Processor Files | Secure |
| Steady State Transmission Project and Information Tracking (TPIT) Procedures | Secure |
| System Protection Short Circuit Data | Secure |
| Transient Stability Screening Study for ERCOT System | Certified (all TSPs) |
| TSP Planning Criteria and Procedures | Secure |
| Voltage Stability Screening Study for ERCOT System | Certified (all TSPs) |

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| ***[PGRR116: Replace paragraph (2) above with the following upon system implementation of NPRR1240:]***  (2) The list below includes both data set and designated classification of the available planning data and information. Where the information is classified as “Certified,” the appropriate Market Participant category or group is “(all TSPs)” to indicate all Transmission Service Providers (TSPs) or “(PDCWG members)” to indicate members of the Performance, Disturbance, Compliance Working Group (PDCWG). “RIOO-RS” indicates information in Resource Integration and On-going Operations–Resource Services. Information classified as “Public” is available on the ERCOT website. The list below is intended to be only a general guide and not controlling language, and any conflict between this list and another section of the Planning Guide is controlled by the other section.   | **Data Set** | **Classification** | | --- | --- | | Aggregated Wind Output | Public | | Annual Planning Model Data Submittal Schedule | Secure | | Demand and Energy Monthly Reports | ERCOT website | | Dynamic Data Information | Certified (all Transmission Service Providers (TSPs)) | | Economic Studies of Transmission Projects for New Generation | Secure | | ERCOT Long-Term System Assessment (LTSA) (except for Protected Information) – includes ERCOT Critical Energy Infrastructure Information (ECEII) | Secure | | ERCOT LTSA – includes ECEII and Protected Information | Certified (all TSPs) | | ERCOT LTSA (redacted) – excludes ECEII and Protected Information | ERCOT website | | ERCOT Steady State Planning Contingency Files | Secure | | ERCOT System Operating Limit (SOL) Methodology | Public | | Generator Interconnection Status (GIS) Report | Public | | Geomagnetically-Induced Current ([GIC) Flow Information](https://mis.ercot.com/secure/data-products/grid/regional-planning?id=PG3-953-M) | Secure | | Geomagnetic Disturbance (GMD) Vulnerability Assessment Postings (except for Protected Information) | Secure | | GMD Vulnerability Assessment Postings | Certified (all TSPs) | | Guaranteed Reliability Loads (GRLs) and associated limiting contingencies | Certified (all TSPs) | | Documents Initiating a Generation Interconnection or Change Request | Secure (RIOO-RS) | | Security Screening Studies and Supporting Documents | Secure (RIOO-RS) | | Sub-synchronous Oscillation Studies and Supporting Documents | Certified (all TSPs) | | Full Interconnection Study (FIS): Steady-State, System Protection, Stability, and Facility Studies and Supporting Documents (except for Protected Information) | Secure | | FIS: Draft Steady-State, System Protection, Stability, and Facility Studies and Supporting Documents | Certified (all TSPs) | | Independent Market Monitor (IMM) and Topology Processor Supporting Documents | Certified (all TSPs) | | Performance, Disturbance, Compliance Working Group (PDCWG) Group Documents and Project Files | Certified (PDCWG members) | | Public Generation Information | Public | | Remedial Action Plan (RAP) Review Cases | Certified (all TSPs) | | Resource Registration Data | Certified (all TSPs) | | Regional Planning Group Projects | Secure | | Regional Transmission Plan Postings (except for Protected Information) | Secure | | Regional Transmission Plan Postings | Certified (all TSPs) | | Seasonal Voltage Profile Studies | Certified (all TSPs) | | Special Planning Studies (except for Protected Information) | Secure | | Special Planning Studies | Certified (all TSPs) | | Steady State Power Flow Base Cases | Secure | | Steady State Power Flow Case Data | Certified (all TSPs) | | Steady State Topology Processor Files | Secure | | Steady State Transmission Project and Information Tracking (TPIT) Procedures | Secure | | System Protection Short Circuit Data | Secure | | Transient Stability Screening Study for ERCOT System | Certified (all TSPs) | | TSP Planning Criteria and Procedures | ERCOT website | | Voltage Stability Screening Study for ERCOT System | Certified (all TSPs) | |