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PROJECT NO. 41155

PROPOSED REVISIONS OR ADDITIONS TO THE ERCOT TRANSMISSION PLANNING GUIDELINES AND PROCEDURES, SUBMITTED PURSUANT TO SUBST. R. § 25.361(d)(3)	§ § § § § §	**BEFORE THE PUBLIC UTILITY COMMISSION OF TEXAS**

ERCOT'S NOTICE OF SUBMISSION OF REVISION REQUEST PERTAINING TO PLANNING GUIDELINES AND PROCEDURES

Electric Reliability Council of Texas, Inc. (ERCOT) submits this Notice of Submission of Revision Request Pertaining to Planning Guidelines and Procedures and pursuant to 16 Tex. Admin. Code (TAC) § 25.361(d)(3), which requires ERCOT to "submit to the commission any revisions or additions to the planning guidelines and procedures prior to adoption." The following PGRR affect planning guidelines or procedures:

PGRR NPRR No.	PGRR Title	Description	Date Posted	Sponsor
080	Updated Responsibilities for Performing GMD Vulnerability Assessments	This Planning Guide Revision Request (PGRR) aligns the Planning Guide with North American Electric Reliability Corporation (NERC) Reliability Standard TPL-007-4, Transmission System Planned Performance for Geomagnetic Disturbance Events, by identifying responsibilities for performing studies needed to complete benchmark and supplemental Geomagnetic Disturbance (GMD) vulnerability assessments.	04/22/20	ERCOT

ERCOT welcomes input on this proposal and would be pleased to provide any further information the Commission may need.

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Respectfully submitted,

/s/ Douglas Fohn

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ATTORNEYS FOR ELECTRIC
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LIST OF ATTACHMENTS

ATTACHMENT A – PGRR 080

Planning Guide Revision Request

PGRR Number	080	PGRR Title	Updated Responsibilities for Performing GMD Vulnerability Assessments
Date Posted		April 22, 2020	

Requested Resolution	Normal
Planning Guide Sections Requiring Revision	3.1.8, Planning Geomagnetic Disturbance (GMD) Activities
Related Documents Requiring Revision/Related Revision Requests	None
Revision Description	This Planning Guide Revision Request (PGRR) aligns the Planning Guide with North American Electric Reliability Corporation (NERC) Reliability Standard TPL-007-4, Transmission System Planned Performance for Geomagnetic Disturbance Events, by identifying responsibilities for performing studies needed to complete benchmark and supplemental Geomagnetic Disturbance (GMD) vulnerability assessments.
Reason for Revision	☐ Addresses current operational issues. ☐ Meets Strategic goals (tied to the ERCOT Strategic Plan or directed by the ERCOT Board). ☐ Market efficiencies or enhancements ☐ Administrative ☒ Regulatory requirements ☐ Other: (explain) *(please select all that apply)*
Business Case	This PGRR satisfies NERC Reliability Standard TPL-007-4.

Sponsor	
Name	Ping Yan
E-mail Address	Ping.Yan@ercot.com

Planning Guide Revision Request

Company	ERCOT
Phone Number	512-248-4153
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Market Segment	Not Applicable

Market Rules Staff Contact	
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Proposed Guide Language Revision

3.1.8 Planning Geomagnetic Disturbance (GMD) Activities

(1) As required by the applicable NERC Reliability Standard, ERCOT shall employ the GIC system models described in Section 6.11, Process for Developing Geomagnetically-Induced Current (GIC) System Models, to perform simulations to identify maximum effective GIC flow in the high side wye-grounded transformers for the worst case geoelectric field orientation for each transformer for the benchmark and supplemental GMD events. ERCOT shall provide the preliminary GIC flow results to the TSPs and Resource Entities for comment before finalizing the results. Upon consideration of the comments, ERCOT shall make the maximum effective GIC flows in the high side wye-grounded transformers available to TSPs and Resource Entities by posting this data on the ERCOT MIS Secure Area.

(a) Upon written request from the TSP or Resource Entity who owns a high side wye-grounded transformer within the ERCOT planning area that is included in the ERCOT GIC system models, ERCOT shall perform simulations to make effective GIC time series available no later than 90 calendar days after ERCOT's receipt of such written requests.

(2) Each TSP and Resource Entity that owns a high side wye-grounded transformer(s) with the high side terminal operated at 200 kV or higher within the ERCOT planning area shall perform the benchmark and supplemental transformer thermal impact assessment(s) as required in the applicable NERC Reliability Standard and shall provide to ERCOT any suggested actions to mitigate the impact of GICs on those transformers with the high side terminal operated at 200 kV or higher within 18 months of the date of ERCOT notification to TSPs and Resource Entities that the final GIC flow results are posted on the MIS Secure Area.

Planning Guide Revision Request

[PGRR057, PGRR070 and PGRR072: Insert applicable portions of paragraphs (3) through (8) below upon system implementation:]

(3) ERCOT and the TSPs shall develop for approval by the TAC, criteria for acceptable steady-state voltage performance during the benchmark and supplemental GMD events.

(4) ERCOT in collaboration with the TSPs and Resource Entities shall perform the ERCOT benchmark and supplemental GMD vulnerability assessments as required in the applicable NERC Reliability Standard; and may set a Generation Resource to out of service prior to receiving an 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 shall provide preliminary results of the GMD vulnerability assessments to the TSPs and Resource Entities for comment before finalizing the results. Upon request, ERCOT shall make available to the TSPs the GIC system models and other model information used for the GMD vulnerability assessments, including suggested actions described in paragraph (2) above.

(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 MIS Public Area.

(5) ERCOT shall finalize the ERCOT benchmark and supplemental GMD vulnerability assessments, post them on the MIS Secure Area, and notify TSPs and Resource Entities of the posting.

(6) For each GMD vulnerability assessment that does not satisfy applicable performance requirements, each impacted TSP and Resource Entity, in collaboration with ERCOT, shall develop and document corrective action plan(s) for ~~its~~their facilities, and develop a timetable, subject to revision, for implementing the corrective action plan(s). For any corrective action plan proposing upgrades to the transmission system that are subject to Protocol Section 3.11.4, Regional Planning Group Project Review Process, review shall be conducted in accordance with the process described therein. For any corrective action plan that is not subject to the review process described in Protocol Section 3.11.4, ERCOT shall review the corrective action plan to ensure that it satisfies applicable performance requirements. Any corrective action plan that proposes operational actions shall be reviewed pursuant to Nodal Operating Guide Section 11, Constraint Management Plans and Remedial Action Schemes.

(a) If a situation~~s~~ beyond the control of the TSP or Resource Entity prevents implementation of a~~the~~ corrective action plan~~(s)~~ within the timetable for implementation ~~as~~ required in the applicable NERC Reliability Standard, the TSP ~~and~~or Resource Entity shall submit a revised corrective action plan, updated timetable, and documentation supporting the request for extension of time, as required in the applicable NERC Reliability Standard, to ERCOT within 30 days of the revision of the corrective action plan.

(b) After receipt of all information required in the applicable NERC Reliability Standard, ERCOT shall submit the request for extension of time to the NERC

Regional Entity, as required in the applicable NERC Reliability Standard, on behalf of the TSP or Resource Entity. ~~should revise the corrective action plan(s). For corrective action plan(s) proposing upgrades to the transmission system that are subject to Protocol Section 3.11.4, Regional Planning Group Project Review Process, review shall be conducted in accordance with the process described therein. For corrective action plan(s) that are not subject to the review process described in Protocol Section 3.11.4, ERCOT shall review the corrective action plan(s) to ensure that it satisfies the applicable performance requirements. Corrective action plan(s) that propose operational actions shall be reviewed pursuant to Nodal Operating Guide Section 11, Constraint Management Plans and Remedial Action Schemes.~~

(7) ERCOT shall post the GMD vulnerability assessment reports and corrective action plan(s) on the ERCOT MIS Secure Area within 90 calendar days of development or revision.

(8) ERCOT in collaboration with TSPs and Resource Entities shall implement a process for obtaining GIC monitor data and geomagnetic field data from TSPs, Resource Entities, or other available sources as required in the applicable NERC Reliability Standard.