Unofficial Nomination Form  
Project 2022-02 Modifications to TPL-001-5.1 and MOD-032-1

**Do not** use this form for submitting nominations. Use the [electronic form](https://nerc.checkboxonline.com/C66173AD-97B3-451D-84B4-7C857129F8ED) to submit nominations by **8 p.m. Eastern, Wednesday, March 02, 2022.** This unofficial version is provided to assist nominees in compiling the information necessary to submit the electronic form.

Additional information about this project is available on the [project page](https://www.nerc.com/pa/Stand/Pages/Project2022-02ModificationstoTPL-001-5-1andMOD-032-1.aspx). If you have questions, contact Senior Standards Developer, [Ben Wu](mailto:ben.wu@nerc.net) (via email), or at 404-446-9618.

By submitting a nomination form, you are indicating your willingness and agreement to actively participate in face-to-face meetings and conference calls.

Previous drafting or review team experience is beneficial, but not required. A brief description of the desired qualifications, expected commitment, and other pertinent information is included below.

Modifications to TPL-001-5.1 and MOD-032-1   
Many areas of the North American bulk power system (BPS) continue to experience an increase in BPS-connected inverter-based resources (e.g., wind, solar photovoltaic (PV), battery energy storage systems (BESS), and hybrid power plants). NERC Reliability Standard TPL-001-5.1 is a foundational standard used for “establishing transmission system performance requirements within the planning horizon to develop a bulk electric system (BES) that will operate reliably over a broad spectrum of system conditions and following a wide range of probable contingencies.” Transmission Planners (TPs) and Planning Coordinators (PCs) develop and use models of the electrical grid to perform planning assessments (e.g., steady-state, dynamic, and short-circuit) to develop corrective action plans for future reliability issues identified. Ensuring that the TPL-001 standard is reflective of the evolving nature of the BPS and its resource mix is paramount to ensuring reliable operation and resilience of the BPS moving forward.

The NERC Inverter-Based Resource Performance Task Force (IRPTF)[[1]](#footnote-1) undertook a complete review of the NERC Reliability Standards in the context of increasing levels of BPS-connected inverter-based resources and published a white paper on the outcomes and recommendations of this review in March 2020.[[2]](#footnote-2)

Based on the outcome of the review, it was determined that the TPL-001-4/5[[3]](#footnote-3) needed clarifications “to address terminology throughout the standard that is unclear with regards to inverter-based resources” the next time the standard is revised.

As the penetration of distributed energy resources (DERs) continues to increase across the North American bulk power system (BPS), it is necessary to account for the potential impacts of DERs on reliability in the planning, operation, and design of the BES. The NERC System Planning Impacts of Distributed Energy Resources Working Group (SPIDERWG) has identified the need for improved modeling of aggregate DER for planning studies (including both utility-scale and retail-scale DER) conducted by Transmission Planners (TPs) and Planning Coordinators (PCs). MOD-032-1 addresses the gathering of modeling data to perform planning assessments but the standard currently has no specific reference to DER data. This SAR proposes to update MOD-032-1 to: (1) include “data requirements and reporting procedures”[[4]](#footnote-4) for DER that are necessary to support the development of accurate interconnection-wide models, (2) replace Load-Serving Entity (LSE) with Distribution Provider (DP) because of the removal of LSEs from the NERC registry criteria, and (3) enable the SDT to review any additional gaps in DER data collection with the de-registration of LSE.

**Standards affected: TPL-001-5.1 and MOD-032-1**

The time commitment for this project is expected to be one meeting per quarter (on average two and a half full working days each meeting) with calls scheduled as needed to meet the agreed-upon timeline the review or drafting team sets forth. Team members may also have side projects, either individually or by subgroup, to present to the larger team for discussion and review. Lastly, an important component of the review and drafting team effort is outreach. Members of the team will be expected to conduct industry outreach during the development process to support a successful project outcome. NERC is seeking individuals who have subject matter expertise with Transmission Planning, Modeling, and are familiar with NERC Standards TPL-001 and MOD-032.

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| Name: |  | | |
| Organization: |  | | |
| Address: |  | | |
| Telephone: |  | | |
| Email: |  | | |
| Please briefly describe your experience and qualifications to serve on the requested Standard Drafting Team (Bio): | | | |
| **If you are currently a member of any NERC drafting team, please list each team here:**  Not currently on any active SAR or standard drafting team.  Currently a member of the following SAR or standard drafting team(s): | | | |
| **If you previously worked on any NERC drafting team please identify the team(s):**  No prior NERC SAR or standard drafting team.  Prior experience on the following team(s): | | | |
| **Acknowledgement that the nominee has read and understands both the *NERC Participant Conduct Policy* and the *Standard Drafting Team Scope* documents, available on NERC Standards Resources.**  Yes, the nominee has read and understands these documents. | | | |
| Select each NERC Region in which you have experience relevant to the Project for which you are volunteering: | | | |
| MRO  NPCC  RF | | SERC  Texas RE   WECC | NA – Not Applicable |

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| **Select each Industry Segment that you represent:** | | |
|  | 1 — Transmission Owners | |
|  | 2 — RTOs, ISOs | |
|  | 3 — Load-serving Entities | |
|  | 4 — Transmission-dependent Utilities | |
|  | 5 — Electric Generators | |
|  | 6 — Electricity Brokers, Aggregators, and Marketers | |
|  | 7 — Large Electricity End Users | |
|  | 8 — Small Electricity End Users | |
|  | 9 — Federal, State, and Provincial Regulatory or other Government Entities | |
|  | 10 — Regional Reliability Organizations and Regional Entities | |
|  | NA – Not Applicable | |
| Select each Function**[[5]](#footnote-5)** in which you have current or prior expertise: | | |
| Balancing Authority  Compliance Enforcement Authority  Distribution Provider  Generator Operator  Generator Owner  Interchange Authority  Load-serving Entity  Market Operator  Planning Coordinator | | Transmission Operator  Transmission Owner  Transmission Planner  Transmission Service Provider  Purchasing-selling Entity  Reliability Coordinator  Reliability Assurer  Resource Planner |

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| Provide the names and contact information for two references who could attest to your technical qualifications and your ability to work well in a group: | | | |
| Name: |  | Telephone: |  |
| Organization: |  | Email: |  |
| Name: |  | Telephone: |  |
| Organization: |  | Email: |  |
| Provide the name and contact information of your immediate supervisor or a member of your management who can confirm your organization’s willingness to support your active participation. | | | |
| Name: |  | Telephone: |  |
| Title: |  | Email: |  |

1. The IRPTF has subsequently become the IRPWG under the NERC Reliability and Security Technical Committee (RSTC). [↑](#footnote-ref-1)
2. NERC IRPTF, “IRPTF Review of NERC Reliability Standards,” March 2020: <https://www.nerc.com/comm/PC/InverterBased%20Resource%20Performance%20Task%20Force%20IRPT/Review_of_NERC_Reliability_Standards_White_Paper.pdf> [↑](#footnote-ref-2)
3. At the time of review, the TPL-001-5 standard had just recently been approved by FERC and was yet to be subject to enforcement. [↑](#footnote-ref-3)
4. See Requirement R1 of MOD-032-1, which requires each TP and PC to develop data requirements and reporting procedures for the collection of modeling data used for the development of models for each PC footprint. [↑](#footnote-ref-4)
5. These functions are defined in the NERC [Functional Model](http://www.nerc.com/pa/Stand/Functional%20Model%20Advisory%20Group%20DL/FMAG_Inf_Functional%20Model%20v6%20(clean).pdf), which is available on the NERC web site. [↑](#footnote-ref-5)