Unofficial Nomination Form

# Project 2019-04 Modifications to PRC-005-6

**Do not** use this form for submitting nominations. Use the [electronic form](https://nerc.checkboxonline.com/D858E7D6-5EEF-4EEA-99DA-A710E868A98D) to submit nominations for **Project 2019-04 Modifications to PRC-005-6** drafting team members by **8 p.m. Eastern, Wednesday, December 15, 2021.** This unofficial version is provided to assist nominees in compiling the information necessary to submit the electronic form.

See the [project page](https://www.nerc.com/pa/Stand/Pages/Project-2019-04-Modifications-to-PRC-005-6.aspx) or contact Standards Developer, [Laura Anderson](mailto:Laura.anderson@nerc.net) (via email) or at (404) 446-9671 for more information or assistance.

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 description of the desired qualifications, expected commitment, and other pertinent information is included below.

Background  
On May 14, 2019, NERC received a Standard Authorization Request (SAR) from the North American Generator Forum (NAGF) seeking to revise Reliability Standard PRC-005-6 – Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance to clarify the applicability of PRC-005-6 to the protective functions within an Automatic Voltage Regulator (AVR) and provide the prescribed maintenance activities. The SAR also requests the PRC-005-6 Supplementary Reference and FAQ be updated to reflect the changes to the standard.

NERC staff reviewed the SAR and agreed with the requestor that more clarity surrounding the maintenance of protective functions within digital AVRs would be beneficial. Furthermore, NERC staff recommended the future standard drafting team (SDT) convert the PRC-005-6 Supplementary Reference and FAQ into a Technical Rationale document and Implementation Guidance, if desired.

The SAR was posted for industry comments July 30-August 28, 2019, June 2-July 8, 2020, and January 1-February 26, 2021. On October 20, 2021 the Standards Committee:

* accepted the revised SAR;
* authorized drafting revisions to PRC-005-6;
* appointed the SAR DT as the SDT; and
* authorized a 30-day nomination solicitation for additional SDT members.

Purpose/Industry Need

In June of 2016, Xcel Energy submitted a Request for Interpretation[[1]](#footnote-1) (RFI) to NERC seeking clarification on what equipment should be included in the scope of an entity’s Protection System Maintenance Program relative to NERC Reliability Standard PRC-005-6. Xcel Energy noted that many modern generator excitation systems have the capability to respond to electrical quantities and initiate trip signals to either the generator lockout or generator output breaker. Xcel Energy asked whether a protection function (if enabled) that is embedded in a generator’s excitation system or voltage regulator would meet the definition of Protection System, and therefore be included in the scope of PRC-005-6. The RFI was rejected by the NERC Standards Committee at the recommendation of NERC staff, the standards developer, and leadership of the PRC-005-6 DT for the following reason:

"The generator excitation systems and voltage regulators described in Xcel Energy’s RFI are capable of monitoring electrical quantities, such as voltage or current, and responding to those quantities, by causing a trip of the generator in response to these signals. Therefore, it is clear that these embedded protective functions, if enabled, would be included in the scope of Reliability Standard PRC-005-6 as set out in the Applicability section of the standard."

Despite this perceived clarity, the NAGF received feedback from members indicating that significant confusion still remains throughout the industry regarding the applicability of protective functions inside synchronous generator excitation systems to PRC-005. Consequently, in May 2019, the NAGF submitted a SAR to NERC requesting revisions be made to PRC-005-6 that would provide clear and unambiguous language within the standard pertaining to the applicability of protective functions within an Automatic Voltage Regulators (AVR) and any maintenance requirements (activities and intervals) associated with those protective functions.

Per the standards development process, the SAR was posted and a SAR DT was formed to consider the comments received from industry and modify the SAR as appropriate to establish the project scope (parameters of work) for the future SDT. In response to industry comments from the three postings described above, the SAR DT revised the project scope and suggests that the future SDT modifies PRC-005-6 to do the following:

* Clarify that BES protective functions enabled within analog/digital AVRs, excitation systems, and BES protective functions enabled within control systems that respond to measured BES electrical quantities and trip BES Elements either directly or via lockout or auxiliary tripping relays are within the scope of the standard, and include updates to associated maintenance tables as necessary.
* Include new DC supplies (e.g., lithium ion, flow) for Protection Systems in the maintenance tables.
* Include entities registered as UFLS-Only Distribution Providers in the Applicability section to be consistent with changes made to the NERC’s FERC-approved Risk-Based Registration.

Additionally, the future SDT should update the PRC-005-6 Supplementary Reference and FAQ to align with all revisions made to the standard.

To provide specificity and remove ambiguity, the future SDT should also consider revising the applicability section of the standard, developing new terms and/or revising existing terms in the NERC Glossary of Terms, adding and/or modifying maintenance activities and intervals in the maintenance tables, and making other modifications as needed.

NERC is seeking individuals from the United States and Canada who possess knowledge and expertise in:

* Protection System station direct current (DC) supply technologies; and
* Transmission and Distribution

NERC is also seeking individuals who have facilitation skills or legal/technical writing backgrounds as well as those who have experience with developing standards inside or outside the NERC development process (e.g., IEEE, NAESB, ANSI, etc.). Such experience should be highlighted in the information submitted, if applicable.

The time commitment for these projects is expected to be up to two face-to-face meetings per quarter (on average two full working days each meeting) with conference 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. Last, 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.

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| Name: |  |
| Organization: |  |
| Address: |  |
| Telephone: |  |
| E-mail: |  |
| 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): | |

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| 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 |

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| --- | --- |
| Select each Function**[[2]](#footnote-2)** 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: |  | E-mail: |  |
| Name: |  | Telephone: |  |
| Organization: |  | E-mail: |  |

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| 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. [Xcel\_RFI\_PRC-005-6](https://www.nerc.com/pa/Stand/SARandRFI/SC%20Response%20to%20Xcel%20RFI%20-%20PRC-005-6.pdf%20) [↑](#footnote-ref-1)
2. 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-2)