Unofficial Comment Form

Project 2021-05 Modifications to PRC-023

**Do not** use this form for submitting comments. Use the [Standards Balloting and Commenting System (SBS)](https://sbs.nerc.net/) to submit comments on **Project** **2021-05 Modifications to PRC-023** by **8 p.m. Eastern, Friday, December 2, 2022.**

Additional information is available on the [project page](https://www.nerc.com/pa/Stand/Pages/Project-2021-05-Modifications-to-PRC-023.aspx). If you have questions, contact Senior Standards Developer, Ben Wu (via email), or at 404-446-9618.

## Background Information

Requirement R2, in PRC-023-4, requires applicable functional entities to set their Out of Step Blocking[[1]](#footnote-1) (OOSB) elements to allow tripping for faults during the loading conditions prescribed by Requirement R1. A requirement to allow tripping in a Standard whose intent is to block tripping, has led to some entities disabling their PSB relays. Disabling of these relays could lead to tripping during stable power swings causing an increased reliability risk. PSB relays provide increased security by preventing relays from tripping for stable power swings. Preventing the tripping of transmission lines during these types of disturbances increases the reliability of the BES. Requirement R2 should be removed or modified because it has been interpreted to restrict the setting of PSB elements making determination of appropriate settings more difficult and making compliance with PRC-026 more difficult. The present inclusion of out of step tripping in Attachment A, Item 1.2 needs to be clarified.

Attachment A exclusion 2.3 should also be removed or modified. This exclusion is no longer needed and that exclusion has contributed to the confusion surrounding R2. Attachment A exclusion 2.3 has been interpreted as being in conflict with R2. Both R2 and Attachment A exclusion 2.3 are either not needed or should be modified in the Standard.

The purpose of the proposed project provides a reliability-related benefit by modifying or eliminating PRC-023-4 Requirement R2 to more effectively apply PSB when appropriate to improve BES reliability. Proper application of PSB can also be helpful in complying with PRC-026. It will modify or remove an exclusion (Attachment A – 2.3) that may no longer be needed.

## Questions

1. Do you agree that Reliability Standard PRC-023-4, Requirement R1 “….for all fault conditions…” covers the intent of Requirement R2 so that the Requirement R2 should be retired?

[ ]  Yes

[ ]  No

Comments:

1. Do you agree with the removal of Section 2.3 from Attachment A?

[ ]  Yes

[ ]  No

Comments:

1. Provide any additional comments for the standard drafting team to consider, if desired.

Comments:

1. The term power swing blocking (PSB) is also used by industry to describe these elements. The PSB term will be used for the remainder of this SAR. [↑](#footnote-ref-1)