

Project 2008-02.2

Phase 2 Undervoltage Load Shedding: Misoperations **UVLS Standard Drafting Team**

Industry Webinar February 3, 2015











Standard Drafting Team

Member	Entity
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- Standard Drafting Team (SDT)
 - Manish Patel, Senior Engineer
- NERC staff
 - Scott Barfield-McGinnis, Standards Developer



- Administrative Items
 - Antitrust and Disclaimers
 - Objectives
- Project
 - History
 - Proposed Reliability Standards
 - Other documents
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 - Commenting
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Administrative Items





Antitrust Guidelines

NERC Antitrust Guidelines

It is NERC's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. This policy requires the avoidance of any conduct that violates, or that might appear to violate, the antitrust laws. Among other things, the antitrust laws forbid any agreement between or among competitors regarding prices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that unreasonably restrains competition. It is the responsibility of every NERC participant and employee who may in any way affect NERC's compliance with the antitrust laws to carry out this commitment.

Disclaimers



Disclaimer

Participants are reminded that this meeting is public. Notice of the meeting was widely distributed. Participants should keep in mind that the audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.

Presentation Material

- Wording in this presentation is used for presentation purposes and may not reflect the official posted draft of the standard or other documents
- Proposed work includes
 - PRC-004-5 (*Protection System Misoperation Identification and Correction*)
 - PRC-010-2 (Undervoltage Load Shedding)
 - Associated Implementation Plans, Mapping document, and draft RSAWs



- Webinar is intended to
 - Provide general information
 - Obtain initial reaction to approach
 - Seek stakeholder feedback on any improvements
- Informal Question and Answer (Q&A) at the end
 - Q&A session is intended to obtain industry's initial reaction
 - Submit questions and comments via the chat feature
 - Some questions may require future team consideration
 - Please reference slide number, standard and section, etc.
 - Presenters will attempt to address each question
 - Webinar and chat comments are not a part of the official project record
 - Webinar slides and audio will be posted within 24-48 hours





Project





Initial Work

- Addressed Undervoltage Load Shedding Programs ("UVLS Program")
- Created PRC-010-1
- Retired PRC-020-1, PRC-021-1, and PRC-022-1
- Held off addressing UVLS equipment Misoperations due to concurrent work on PRC-004-3 by another team

• Phase 2

- Completes the work anticipated by the UVLS and Misoperation SDTs
- Inserts Applicability in PRC-004 for UVLS that trips BES Elements
- Clarifies that PRC-010 includes UVLS equipment
- Closes the gap
 - Concerning Misoperation of UVLS equipment
 - o due to the retirement of PRC-022-1

Proposed PRC-004-5



- Applicability section proposal
 - "4.2.3 Undervoltage load shedding (UVLS) that is intended to trip one or more BES Elements"
- Standard will cover UVLS that trip BES Elements
- UVLS Program equipment is addressed by PRC-010
- Centrally controlled UVLS is addressed as a "Remedial Action Schemes" (RAS) by definition
 - See Project 2010-05.2 for more information on RAS
 - Meets the intent of Misoperation and UVLS SDTs
 - Aligns with the data request for reporting Misoperations
 - Request for Data of Information, Protection System Misoperation Data Collection, August 14, 2014
- Irrelevant historical text (dated) has been removed

Proposed PRC-010-2



- Requirement R4 split for clarity
 - Original performance was moved to Part 4.1 (did the Program work?)
 - Part 4.2 is being proposed to address UVLS equipment
- Requirement R5 removes "in its UVLS Program" to place focus more appropriately on the "assessment"
- Misoperation of UVLS Program equipment may be identified during the post event assessment
 - Performed by the Planning Coordinator and Transmission Planner
- Correction Action Plan addresses UVLS Program deficiencies
 - Ensures Misoperation identification and correction by UVLS entities
- Made adjustments to the Application Guidelines
- Irrelevant historical text (dated) has been removed

Other Documents



Implementation Plan

- Set to be timed with the regulatory approval of PRC-010-1
 - o Goes into effect at the same time as PRC-010-1, or
 - The first day of the first calendar quarter after approvals

Mapping Document

- Provides reference between the retired PRC-022-1 and the new PRC-004-5 and PRC-010-2
- Unofficial Comment Form
 - Limit comments to proposed revisions (scope of work)
 - Comment on Standards or other documents
- Reliability Standard Audit Workshop (RSAW)
 - Comments may be made through the NERC Compliance webpage





Closing Remarks



Going Forward



- Formal posting
 - 45-day comment period start anticipated on February 19
 - Initial ballot in the last 10 days of the comment period
- Public SDT in-person meeting
 - Anticipated for Thursday, April 9 at Xcel Energy in Denver, CO
 - Book travel after the official announcement
 - Must register either for in-person or remote attendance
 - Details forth coming at <u>www.nerc.com</u> for registration
 - See Program Areas, Standards, Calendar, View Standards Events
- Potential final ballot April 2015
- Potential Board of Trustees adoption May 2015



Effective feedback:

- Specific to question, brevity is best
- Provide suggestions or equally effective alternative
- Indicating agreement with others is preferred over copying the comments (e.g., "ABC agrees with XYZ's comments..." or "ABC agrees with XYZ's comments except for...")
- Provide proposed change and rationale
- Less effective feedback:
 - Repeating same comment multiple times
 - No reference to where suggested change should occur
 - Non-specific concerns (e.g., "This change is not needed.")
- Balloting will be in legacy system



Question and Answer Session

- Please submit your questions via the chat window
 - This session is intended to help general understanding
 - Please reference slide number, standard section, etc.
 - Presenters will respond to as many questions as possible
 - Some questions may have to be deferred to the team
- For the official record
 - Webinar and chat comments are not a part of the official project record
 - Comments must be submitted via the project page during posting
 - The drafting team will consider any informal feedback
 - Send to a team member, or
 - Send to the NERC Standards Developer (<u>scott.barfield@nerc.net</u>) for distribution to the team



- Encourage working through forums or trades
 - To become aware of industry direction on topics
 - Develop consolidated comments informally or during postings
- NERC Standards Developer, Scott Barfield-McGinnis
 - Email at scott.barfield@nerc.net
 - Telephone: 404-446-9689
 - To receive Project 2008-02.2 announcements and updates
 - Request to be added to UVLSSDT_Plus
- Webinar slides and recording will be posted to <u>www.nerc.com</u>
 - In about 24-48 hours following webinar under "Standards" / "Webinars"
 - Link will be provided in the next "Standards Bulletin"
- Thank you for participating