

Meeting Notes

Project 2010-05.2 SPECIAL PROTECTION SYSTEMS

Standard Drafting Team

August 12-14, 2014 | 8:00 a.m. – 5:00 p.m. PDT

Pacific Gas and Electric Company
77 Beale Street
San Francisco, CA 94105

Administrative

- Introductions and chair remarks**

Gene Henneberg, the chair, brought the meeting to order at 8:15 a.m. PDT on Tuesday, August 12, 2014 and welcomed everyone. Those in attendance were:

Name	Company	Member or Observer
Gene Henneberg	NV Energy / Mid-American	Member
Bobby Jones	Southern Company	Member
Amos Ang	Southern California Edison	Member
John Ciufu	Hydro One Inc	Member
Alan Engelmann	ComEd / Exelon	Member
Davis Erwin	Pacific Gas and Electric	Member
Charles-Eric Langlois	Hydro-Quebec TransEnergie	Member
Robert J. O'Keefe*	American Electric Power	Member
Hari Singh*	Xcel Energy	Member
Sharma Kolluri	Entergy	Member
Al McMeekin	NERC	Member
Syed Ahmad	FERC	Observer
Jonathan Meyer	Idaho Power	Observer
*via teleconference		

- **Determination of quorum**

The rule for NERC standard drafting team (SDT or team) states that a quorum requires two-thirds of the voting members of the SDT. Quorum was achieved as 10 of the 10 voting members were either present or on the teleconference.

- **NERC Antitrust Compliance Guidelines and Public Announcement**

Mr. McMeekin reviewed the NERC Antitrust Compliance Guidelines and public announcement disclaimer.

- **Review team roster**

The team reviewed the roster and confirmed that it was accurate.

- **Approve meeting minutes**

The meeting notes from the March 24 teleconference, the April 15-17 Atlanta meeting, the May 9 teleconference, and the May 20-22 Denver meeting were reviewed. Bobby Jones made a motion to approve the notes, Sharma Kolluri seconded, and all of the notes were approved.

- **Review meeting agenda and objectives**

Mr. McMeekin reviewed the agenda and noted that the goal is to post the definition by August 26.

Agenda Items

1. Discuss comments and revise RAS definition

The SDT reviewed the comments received for the five questions on the comment form. Some of the issues were repeated in several of the questions. The main issues were the following:

- 6th bullet item was too vague, encompassed too much, and should be deleted
- BES should be added to the bullet items
- The statement in the definition about RAS not being a protection system causes a problem with other standards.
- Confusion over whether an operator arming a scheme would exclude it from being a RAS
- Objectives 1 and 6 are too broad
- Add BES to the objectives
- Predetermined conditions in the definition should only be BES conditions
- Exclude AGC, AVRs, and any generator protection function from being RAS
- Confusion over the exclusion for some undervoltage load shedding
- Add cross tripping or other switching in the same substation to exclusion e
- Exclude load throw over schemes
- 24 months not long enough in the Implementation Plan

The SDT discussed possible changes to the definition to address comments received. The team decided to delete the sentence stating that a RAS is not a protection scheme and to add an exclusion

for protection schemes. The team decided to delete the 6th bullet, add “extreme events” to the 5th bullet, add BES to the bullets, and to make the list of objectives a non-inclusive list. The team decided to change the word “curtailing” to the word “adjusting” in the first sentence of the definition. Also, the team decided to delete the term “other sources” as this seemed to be causing some confusion. It was decided to add a new exclusion to account for generator controls such as AGC, AVR, speed governing, fast valving, etc. The team added “System” to the term “Operator” in exclusion k. The team worked the concept of distributed relays into the exclusion for undervoltage load shedding. After lengthy discussion the team decided to add the concept of switching in the same substation as an overload to exclusion e (this was later removed in a subsequent teleconference). Also in exclusion e, “high voltage” was changed to “overvoltage”.

The team decided not to include reverse power relays as a specific exclusion because they were covered in the exclusion for generator controls. The team did not add “load throw over schemes” because they were already covered in exclusion d regarding autoreclosing. The team decided to not make a specific exclusion for schemes related to GMD because some schemes could be a RAS depending on their nature. The team also declined to make a change to the Implementation Plan. The team believes that 24 months is sufficient because it is in addition to the 12 months period before the new definition becomes effective.

2. Develop responses to comments

The SDT spent a lot of time developing responses to the comments received. Team members had already provided draft responses prior to the meeting. These were used as starting points for developing the final responses.

3. Append FAQ and Implementation Plan

The FAQ document was updated in many areas to cover the changes made to the proposed definition in response to comments received.

4. Develop posting narrative and questions

This item was not discussed and will be handled in upcoming teleconferences.

5. Next steps

- a. The target for posting is August 26 for a 45 day comment period and ballot.
- b. Conference calls were scheduled to finish up preparations for posting. These will be August 21 and 22 from 1:00 to 4:00PM eastern.

6. Future meeting(s)

- a. October 14-17, 2014 | Reno, Nevada

7. Adjourn

The meeting adjourned at 5:45 p.m. PDT on Thursday, August 14, 2014.