SPWG Meeting

(System Protection Work Group)

Thursday, July 23, 2009

Attendees (Thursday):

Belkin, Peter	AEP	Member
Brown, Perry	AEP	Member
Burford, Bret	AEP	Guest
Chronister, Mark	Oncor Electric Delivery	Member/Chair
Collins, Bob (Phone)	TRE	Staff
Datta-Barua, Manjula	CenterPoint Energy	Member
Ee, Danny	Austin Energy	Member
Francis, Sam	Oncor Electric Delivery	Guest
Garcia, Rafael	Oncor	Guest
Hargrave, Glenn	CPS Energy	Member/Vice-Chair
Kakarla, Raja Sekhar (Phone)	ERCOT	Staff
Macias, Michael	AEP	Member
Mathew, Shirley	LCRA	Member
Miller, Henry	AEP	Guest
Nguyen, Dung	STEC	Member
Parker, Clifton	GP&L	Member
Portillo, Levi	TNMP	Member
Saboor, Ahmad	TMPA	Member
Smith, Dan	Austin Energy	Guest
Vatani, Mehdad	Austin Energy	Member
Wilson, Eric	Austin Energy	Guest
Woolard, Sam	TNMP	Member

Attendees (Friday):

Belkin, Peter	AEP	Member
Chronister, Mark	Oncor Electric Delivery	Member/Chair
Collins, Bob (Phone)	TRE	Staff
Datta-Barua, Manjula	CenterPoint Energy	Member
Ee, Danny	Austin Energy	Member
Francis, Sam	Oncor Electric Delivery	Guest
Garcia, Rafael	Oncor	Guest
Hargrave, Glenn	CPS Energy	Member/Vice-Chair
Kakarla, Raja Sekhar (Phone)	ERCOT	Staff
Macias, Michael	AEP	Member
Mathew, Shirley	LCRA	Member
Nguyen, Dung	STEC	Member
Parker, Clifton	GP&L	Member
Portillo, Levi	TNMP	Member
Saboor, Ahmad	TMPA	Member
Smith, Dan	Austin Energy	Guest
Vatani, Mehdad	Austin Energy	Member
Wilson, Eric	Austin Energy	Guest
Woolard, Sam	TNMP	Member

Anti-trust Admonition

Glenn Hargrave read the ERCOT Antitrust Admonition statement and noted the need to comply with it.

Roster Review/Update

The members and quests passes around the roster for review and update. The roster was marked for corrections and accuracy by members present.

Previous Meeting Minutes

The previous meeting minutes were passed around the room and approved with no changes.

Transmission Line Redundant Primary Protection Requirements Discussion

AEP is concerned about primary protection standards on interconnections of CREZ transmission lines. Their standard is dual high speed relaying on 345 kV lines. They are also concerned about not knowing the placement of future wind farms and more stringent NERC audits. Other utilities want to meet the requirements of CREZ and they are not opposed to dual high speed relaying, but prefer a system study be done to find out is it is necessary. There is also concern that dual high speed relaying on CREZ lines may be interpreted by regulatory bodies as a requirement to install the same system on all lines. There is also mandate in the operating guide for special paths of protection communications.

2009 Case Building Update

EROCT first asked if they should post the case building study on the web site. It was further discussed that they could not post just the PSSE file but the IDEV. ERCOT then suggested that they could send the file to the group. Another suggestion was just to post a text file with the changes and instructions on where to add the changes.

A second issue discussed was if utilities were putting CREZ lines in their cases. In most cases the answer was yes.

A third issue was looking into comparing the SSWG case to the SPWG case. It was noted that SSWG updates quarterly and SPWG updates yearly. ERCOT has not done this, but will do the comparison and send the results to the group. They will compare the SS summer case A to the SP case. There was concern about generation and autotransformers. It was decided just to make sure that all generators were on and to compare mainly positive sequence. The results will be discussed at the next meeting.

Case building in Aspen update

There was some concern that data was lost moving from PSSE to DXT files. It was noted that the latest version of Aspen was used and the overall results turned out well. The issues were not ERCOT witness, some tie problems and not all the cases were submitted. It was also investigated if we should update the case by using change files. Compatibility with other programs was discussed (CAPE and PSSE). The changes will be brought up to ROS, but a case must be built first. A general outline will be brought up at the next meeting. Adding GPS coordinates to the Aspen was also discussed. At the November meeting the group will discuss who will do the next part of the feasibility study.

DFR Residual Voltage Requirements from 7.1.2.3a of operating guide

The question posed was if we monitor all three phases of voltage in the DFR do we still need to monitor the residual especially in some cases it is not used for protection and you can calculate it with the phase values. It was decided to change the wording in 7.1.2.3a, b and g. In addition the word CST will be removed from section 7.5 regarding the clock time for fault recorders. An OGRR will be drafted to make these changes.

Friday, July 24, 2009

Transformer Breaker Failure Relay Discussion

Clarification was needed if a breaker failure relay trips and/or transfer trips on a breaker protecting a transformer is it considered transmission. The response was it depended on the transformer if it was distribution (no) or transmission (yes). It was also considered if the trip affects the bulk electric system.

Standards Activity

Sam Francis gave an update on current standard being reviewed. Items discussed were coordination between power providers and transmission owners. The focus of this was on the generation side and may need to be referenced to the generation group. Another issue is PRC 005 maintenance group is open for 45 day comment period. Some questions are what to include in the protection scheme such as sudden pressure, winding and oil temp on transformers, and the exclusion of reclosing relays. Maintenance periods are also under investigation. Utilities may not have to keep justification for periodic maintenance, but they may have to for condition and performance based maintenance. In PRC001-2 the definition of coordination was discussed. Mainly discussed was the timeline for providing settings and perhaps a large amount of time spent in coordination and compliance. Also discussed was the NOPR on PRC023 and if we should comment as a group.

Compliance Topics

Bob Collins commented on funding for fines and they are ready to do a rewrite of their audit questionnaire. He also mentioned their new facility at Mopac and 360. Also discussed was the back ground of some of the auditors. It was noted that some have relay background and they have a diverse group, but they can find errors in the audit. It was also noted that the audit packages are sent 60 days before the audit and the final report is 60 days after the audit. The info required in the audit is due 30 days after the initial 60 day notice and TRE will review 2 weeks before the audit with suggestions. At first they do a table top audit at TRE and will request more info from TO if needed. After the audit TRE will give a presentation including possible violations. If there are violations TRE will validate or not validate the audit.

Market Notice M-A031408-01 Update

ROS asked the SPWG to write an OGRR regarding PRC001 for any failure that reduces the system reliability. Centerpointe already has a draft awaiting word from ERCOT. Questioned was if this will require a misoperation report and should this be in the operating guide and not a marker notice. SPWG will need to check with ERCOT on the intent of the notice. Centerpointe will start OGRR in 1 month, but they will need some clarification on system reliability. It will be brought up with ROS if SPWG should work with OWG on this definition.

Relay Misoperation Reports

Worked with OWG to increase some of the fields, but the next jump in size is from 255 to 32767. The guide was rewritten to make sure we put it in a special format, but we can still use the old for the 5 day reporting. It was questioned who submits for generators and CO-OP. The GenCorp will submit their own and LCRA will submit for some co-ops. The procedures for filling out the electronic format will be discussed at the next meeting.

Calendar Review

October 31st 345 kV disturbance report and disturbance monitor database due
Take our DAWG report
Review list of SPS

Next Meeting

TNMP will host the next meeting in Lewisville on Nov 19-20.

Special Request

SSWG asked if SPWG will move our case building to earlier in the year since they moved their database up. The response was the SPWG will not be able to move its submissions.