



Update from SCS November 29-30, 1999 Meeting

The variable cutoff proposal that DFTF made to SCS was well accepted. It appears that they are well on the way to being implemented. CMWG would like to see the exceptions to the variable cutoff rule. They do not want to see a large amount of exceptions though.

DFTF needs to review the default values on the cutoff levels.

It looks like DFTF will be the technical approval group for new flowgates.

Review Book of Flowgates and Note Exceptions to DFTF Recommendations

Transformer cutoff levels, should it be the low side voltage? DFTF stated that the low side voltage would be the cutoff threshold.

For the cutoff level floor value should be implemented, the minimum would be two percent.

Some areas may have some hurdles that will need to be cleared before the variable cutoff level can be implemented. In these cases DFTF may recommend a blanket exception for one year.

The current Book of Flowgates was reviewed for exceptions to the cutoff thresholds. Any exceptions will be so noted in the next Book of Flowgates posted on the DFTF's related files web page.

While reviewing the flowgates for cutoff level, the mapping should also be reviewed.

Flowgate Definition Document

DFTF discussed the validity of the contingency flowgate type. This is different from the OTDF flowgate type. Currently TLR can be called on a contingency flowgate. This should only be used as a last resort though. Some of the contingency flowgates can be reassigned as informational or thermally limited flowgates. IDC will be programmed to allow TLR to be called on Reliability flowgates only.

If contingency flowgates were removed there would be two types of flowgates that TLR could be called on: Reliability OTDF and Reliability PTDF. The three subcategories are: Stability, Voltage, and Thermally.

Contingency flowgates will be changed to informational flowgates unless it can truly be considered a reliability flowgate.

DFTF will recommend that the DFTF Flowgate Definition Document be attached to Appendix 9C1 that was distributed by Ben Li. Chi Tang will return DFTF's comments to Ben Li. A fourth type of constrained facilities should be added, and that is the Phase Angle Limited Facility.

Phase Angle Limited Facility: One or more elements that are phase angle limited (whose operating limit, if violated, could result in the inability to reclose the element) may be defined as the monitored facility to be modeled by the IDC. A percentage threshold should be applied to the PTDF of the defined facility.

Since the term flowgate is so widely used it should be used and defined in the appendix. If it is not defined in the appendix, it should be defined in the glossary.

Under the Introduction section a sentence or parenthetical should be added referencing the DFTF's Flowgate Definition Documents. This will allow for the use of Flowgate instead of the term constrained facilities. Section B should be divided into two sections, Flowgate Composition (or use the DFTF Flowgate Definition Document) and Flowgate Percentage Threshold.

Potential voltage class and cutoff levels, using ranges instead of classes:

500 kV and Higher	6%
345 kV	5%
230 kV	4%
161 kV and below	3%

SDX Data Problems and Solutions

The current issues with SDX are:

- It does not include facilities under 230 kV and generators under 50 MW. Both SDX and IDC can accommodate data below these levels. The data can be submitted in a CSV file format, similar to the data export format.
- SC's with multiple control areas have to combine the files prior to submitting them. Is it possible to submit individual CA files? One of the problems is when a SC submits a file with a blank for one of its CA and overwrites a CA's data submission. They are trying to get the CA's to do the submission directly.

2000 Summer Base Case

May 1, 2000 will be the day that DFTF will switch to the summer base case. This is from a different series of base cases than the winter base case. The finalized summer MEM/VEM base case will be emailed to DFTF for review, modification, and update.

In the Book of Flowgates there are some duplicate names. They are in different control areas, so at the time it is not a problem. DFTF should try to eliminate the duplicate names.

Modeling PARS in IDC Base Case

Two important features are the calculation of phase shifter response factors due to change in tap position and the implementation of phase shifter MW schedules. The response factor can be calculated by modeling a phase shifter as a load on one side of the phase shifter and generator on the other side of the phase shifter.

For phase shifters that are under continuous MW control, to provide relief to a flowgate, the security coordinator responsible for the flowgate will submit a request to the phase shifter operator.

The ability to handle PARS will be implemented in Phase 2 of the IDC. DFTF will need to work with the Alliance to make sure that they model the phase shifters correctly. This includes whether the phase shifter is blocked or free flowing. The modeling will need to accommodate both methods.

Modeling Sub-Control Areas

Subcontrol areas can be modeled but several issues remain, such as tagging.

NERC Update

DFTF will need to shift the focus of the group from Regional representation to Security Coordinator. This should take effect about the same time that the NERC groups are restructured. Some of the Security Coordinators may opt to have the current members represent them and only make appearances when needed.

Other Issues

The DFTF discussed the issue of hubbing. This is not a modeling issue and is being addressed by other NERC committees.

Review Action Items

- Brian will see about having the DFTF roster reference the Security Coordinator that they represent instead of the Region they are from.
- Mat Long will make another draft of the Book of Flowgates for review prior to sending it to the CMWG.
- Chi will draft a proposal for the implementation of PAR modeling by the IDC. This will be sent to the DFTF for review.
- Chi will take DFTF's comments on the flowgate definitions to Ben Li. The summer base case will be switched May 1, 2000.

Future Meetings

March 1–2, 2000	Orlando (Sheraton Safari SCS met there)	Noon–5 p.m., 8 a.m.–Noon
April 25–26, 2000	New Orleans	Noon–5 p.m., 8 a.m.–Noon

Adjournment

Chairman Long adjourned the meeting at noon on January 19, 2000.