



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

Princeton Forrestal Village, 116-390 Village Boulevard, Princeton, New Jersey 08540-5731

Distribution Factor Task Force

December 7–8, 1998
San Antonio Marriott
San Antonio, Texas

Meeting Minutes

Attendance

Madison Long, Chairman	SERC	Greg Campoli	NPCC
Jonathan Riley, Vice Chairman	ECAR	William Tiller	SERC
Dave Mabry	MAAC	Lanny Nickell	SPP
Thomas Vitez	ECAR	Chi Tang	Canada
Roberto Paliza	MAIN	Brian M. Nolan	NERC
Patrick Shanahan	MAIN		

Administrative Matters

The Distribution Factor Task Force (DFTF) meeting was called to order at 1 p.m. on December 7, 1998 by Chairman Madison Long. Each representative introduced himself.

The September 14–15, 1998 meeting minutes were approved with modifications.

NERC will have to set up an archiving system for the base cases and data files. MAIN keeps the most recent databases, but it will be up to NERC to store the historic data files. The main elements that would need to be stored are the outages, base case, monitor list, and the output files.

If there is a need to retrieve any information, the request should go to NERC. NERC will then collect the data that is needed to fulfil the request, and will eventually need to store all of the data on site.

Daily Update of Eastern Interconnection Model

MAIN is receiving data from all areas except MAPP and Florida. The lack of data collection from Florida does not have a large impact on the matrix calculations. The lack of data collection from MAPP does have an impact on the SPP and MAIN values. According to MAIN, MAPP presently does not have the ability to sign onto the system to implement NERC TLR for MAPP flowgates.

In general, MAIN is receiving more data from the Security Coordinators. The data also includes load and capacity data. The quality of the data is also improving. However, some of the data is not being submitted in the SDX format and the common names are not being used by some entities. If the

MMWG name is used, the bus can be matched to the common name. If common names are not being submitted, the entities need to submit a reference table to Chi.

The winter base case was to begin use in December. MAIN and SPP wanted to use a more up-to-dated model than was currently in the base case. The bus numbering will change in these two areas. MAIN would like to replace the current model with its ATC model, so they do not have to update two different models. Chi is still using trial model one. MAIN will be replacing its model this week.

DFTF will no longer need to calculate a monthly matrix for backup purposes.

Any facilities that are to come on line during the season need to be included in the beginning seasonal matrix and set to be out of service. When the new facility comes on line, the facilities' status would be switched.

The MAIN ftp site contains the SDX data, as well as many useful documents and base cases. The SDX data does not need a conversion program since an IDEV file can be down loaded instead.

Material for Security Coordinators Manual

PTDF and OTDF flowgate approval process

With the exception of emergency flowgate creation, DFTF recommends that new flowgates and changes to existing flowgates be submitted to DFTF for inclusion, as soon as practical, in the model. New flowgates would be reviewed no later than the next DFTF meeting after its implementation, for validity. Flowgates will then be sent to the SCS with a recommendation for final approval. A default approval process should be established for emergency flowgate creation, subject to the criterion that the new flowgate is a single monitored element PTDF or OTDF Flowgate. Proper notification should be made for any revisions to the Book of Flowgates.

Book of Flowgates

Flowgate 1004 is a duplicate of 5031 and 1010 is a duplicate of 5032. Flowgates 5031 and 5032 will be removed from the book of flowgates since Associated is no longer a member of SPP. SPP and SERC will submit a revised list by December 11. The contingency element will be added to the OTDF flowgates.

The PTDF flowgate will be the default type of reliability flowgate. For OTDF, the monitored element will be the control element.

If a problem arises, a Security Coordinator can submit a flowgate. It would be up to the Security Coordinator(s) in charge of that flowgate to call any TLR on that flowgate. To add a flowgate they need to be included in a monitored line list and inform Chi of when it goes in to service. After that it will take about two weeks to be included into the database. The time for changes to be implemented in the calculation process is minimal.

The Book of Flowgates was reviewed and will be updated as per the discussion. Many multi-element Flowgates were converted to OTDF Flowgates during the review period. At this time, the DFTF discourages multi-element thermal Flowgates but is in no position to "disapprove" them based on the present Flowgate definition document. A revised list will be distributed. A near final Book of Flowgates will be posted by the end of December.

From the revised list, the group will make a list of all remaining multi-element PTDF Flowgates.

Other

While waiting for the PTI's update to the MUST program, DFTF could choose a select number of OTDF flowgates for Chi to calculate. For the difficult OTDF flowgates Chi would recommend waiting to use PTI to calculate the OTDF.

There is a priority list of tasks that needs to be addressed, and the number one priority is switching to the winter base case, followed by mapping SDX data to the winter base case. After this has been completed, it would be time to begin the calculation process for OTDF's. There is a parallel effort to ensure that the OTDF data is in a standard format for any of the programs for calculation.

At a minimum, the DFTF needs to identify the OTDF flowgates.

The flowgates with a type of Informational are not for NERC TLR. Can their use be prevented?

OTDF Flowgates

Currently, MAAC is not planning on adding OTDF flowgates. For the revised Flowgate list, MAIN and SPP thermal reliability Flowgates will consist only of single monitored element PTDF or OTDF Flowgates. (*State the progress other areas are making toward eliminating multi-element PTDF Flowgates.*)

Once the MUST program is updated, the number of OTDF flowgates will increase from the estimated 100.

TPF Calculations

A complete review of all flowgates for over and under counting would need to be performed, prior to implementing a TPF calculation process. This includes reviewing the tie line ownership configurations. The areas that are in the GAPP system were reviewed by GAPP and many of the recommendations have made their way into the NERC models. Many of the over and under counting problems have been documented, but the areas that were not part of the GAPP system will need an extensive review.

The GAPP system uses load scaling and generation point in its TPF calculation process. This differs from the TLR method of using generation locations.

If TRS Stage II is not going to use a TPF calculation process, then a MW mile process may be a consideration. If TRS stage II uses a TPF, the entire TPF calculation process should be reviewed for possible improvements.

Modeling Guidelines/Procedures Documents

PTDF Viewers

Currently there are three viewers. Ontario Hydro has two GAPP viewers also. NERC has two viewers, one web and one downloadable. MAIN has the official viewer for the IDC, although it is not operating properly. All of the viewers are to be using the same data.

The downloadable viewer is mostly for presentation purposes mostly. The Internet program does not allow for a CSV export though. Many of the current spreadsheet programs will read an html file though.

For TLR purposes it needs to be recommended that only the Internet versions be used. It would be useful if the downloadable viewer stated that it is not for use for TLR purposes.

SPSSTF, IDC, iIDC, etc. Update

David Zwergel, Chairman of the IDC, briefed DFTF on the upcoming IDC meeting. A majority of the meeting will be devoted to the contract. One of the possibilities will be to re-bid the contract; this could delay the implementation of the system. Another item on the agenda would be the merger of IDC and iIDC committees.

Ben Li, Chairman of the SPSSTF, briefed the DFTF that a graduated sensitivity cut-off is being discussed for multi-element flowgates. Other items discussed are that CMTF would like to see the OTDF flowgates implemented. DFTF will not need to include ratings on flowgates; they will be retrieved from the ISN since many are dynamically rated.

Future Meetings

The group discussed setting aside the dates below for possible future meetings:

January 13–14	Orlando/Tampa	half day, half day
February 17–18	Atlanta/Charlotte	half day, half day
March 24–25	Location to be announced	half day, half day

Assignments

- All are to go to the MAIN ftp site to review the SDX data for their Regions security coordinators.
- Brian Nolan will ensure that the meeting minutes and roster on the DFTF web page are up to date.
- If the DFTF members have not received the user name and password; contact Roberto.
- All to submit final changes to the winter model by December 18, 1998.
- Chairman Long will redistribute the latest version of the Book of Flowgates to DFTF by December 18, 1998.
- All members will review the control area to control area flowgates, so that the duplicates can be removed. This should be completed by December 31, 1998.

Adjournment

Chairman Long adjourned the meeting at noon on December 8, 1998.