



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Task Force

September 14–15, 1998

Holiday Inn
Saratoga, New York

Meeting Minutes

Attendance

Madison Long, Chairman	SERC	William Tiller	SERC
Jonathan Riley, Vice Chairman	ECAR	Lanny Nickell	SPP
Greg Krajnik	MAAC	Chi Tang	Canada
Roberto Paliza	MAIN	Brian M. Nolan	NERC
Patrick Shanahan	MAIN	James V. Mitsche	PTI
Greg Campoli	NPCC	Boris S. Gisin	PTI

Administrative Matters

The Distribution Factor Task Force (DFTF) meeting was called to order at 1 p.m. on September 14, 1998 by Chairman Madison Long.

The August 13, 1998 meeting minutes were approved with modifications.

Update on PTDF Matrix Calculation

For new facilities that are to come on line during a particular month, the facility needs to be put into the monthly model with a status of zero. The change in status would be picked up in the daily updates.

September Matrix

Ontario Hydro has loaded the matrix, but due to the new four digit flowgate numbers the matrix will need to be redone. The raw data that Chi will be sending to Conrado will be in the new ASCII file format. The same calculations will be needed as with the prior data format.

DFTF is not currently using a light load matrix. Once the current events settle down, with the switching from the monthly to daily updating, DFTF will revisit the idea of a light load matrix.

October Matrix

Since three Security Coordinators are not submitting the data to the SDX, should DFTF continue to calculate the monthly matrices? The monthly outage numbers can be used in the event a control area is not reporting daily outages. DFTF will need to make sure that the outage data is collected for the October matrix.

98 Winter Base Case Problems, Concerns, etc.

Based on discussion in the August DFTF meeting, DFTF will switch from the summer base case to the winter base case in November. Each Regional representative will need to check to see if the SDX data that is being submitted match up with the new base case. Conrado will need some time to ensure that the new numbers match up. Roberto believes that switching at the present time would not be a good idea.

Due to the delays in the daily process, DFTF will switch to the winter base case in December.

Daily Updates of Eastern Interconnection Model

The July version of the daily and on demand update procedures were discussed. DFTF will include the final approved procedures in its procedural manual.

Any outage more than twelve hours long will be incorporated into the PTDF calculations. Once the full system is operational, the outage time will be reduced to six hours. DFTF would like to see the interim time frame reduced to six hours. Currently, about six Security Coordinators are sending the SDX data files on a regular basis. New York, MAPP, and AEP are the most prominent Security Coordinators that are missing from the process. Some Security Coordinator's are using in-house systems to produce the CSV files. Ontario Hydro is able to retrieve and read these files.

The current process is for one matrix for the entire day. A future matrix calculation process will include an on and off peak matrix. To increase the speed of the process, just the changes in the power system are to be captured. Ontario Hydro will notify all of the Security Coordinators of the new data files. There will be two viewers available, one on the private IDC system and one on the NERC site that will be available to the public.

The current updating process of the matrix is manually done. The system will not be fully automated until there is two weeks of manual testing. October 15 will be the day that the updating process will be fully automated and on-demand requests will be accepted.

In the event of a forced outage, the matrix will be recalculated. This will be done for facilities that are in the model only.

NERC will have the responsibility of archiving the data and base cases. In the event that the case or data is needed it will be up to NERC to provide the data.

The SDX system that Conrado has developed will need to be modified. One such modification would be to display the identifier number. Another change would be to just display the incremental changes to the data file.

Flowgate Definition and Book of Flowgates

A disclaimer should be added to let people know that there is no mention of OTDF's in NERC's Policy 9.

The definition of reliability flowgates will be modified to include contingency and monitored element pairs. Pat would like to see the definition of reliability flowgates separated for the OTDF and PTDF values. For the time being, DFTF will leave the reliability flowgate definition as is.

The use of a contingency flowgate was discussed and DFTF believes that contingency flowgates are needed. The definition of the contingency flowgate was altered for clarity.

Informational flowgates are defined in the book of flowgates, but currently there are no informational flowgates defined. One reason is that the current software cannot differentiate between flowgates that can have TLR called on them and ones that cannot. This definition will stay.

OTDF Flowgates

PJM is currently using OTDF's from its EMS systems. When the Eastern Interconnection goes to the daily process, PJM will use a limited set of elements. Eventually, PJM will use all of the monitored elements that it uses in its in-house analysis. PJM believes that the OTDF values are the more correct value to use.

Modeling Guidelines/Procedures Documents

Chairmen Long will incorporate the daily updating procedures and the Modeling Guidelines into the Procedures Document and distribute it to DFTF. Ben Li's document will be the main document and the others will be listed as appendices. The flowgate document could also be attached as an appendix.

SPSSTF, iIDC, etc. Update

Jim and Boris from PTI introduced themselves as one of the contractors for the IDC project. The incorporation of real-time data into the MMWG base cases will be one of the difficulties that must be overcome for the IDC system to move smoothly. Representatives from PTI would like to attend future DFTF meetings. This will help to ensure that the knowledge and ideas that DFTF and PTI have are shared.

DFTF Meeting Expenses Spreadsheet

The current meeting expense spreadsheet will be distributed to DFTF for review and update.

Future Meetings

October 29, 1998 Orlando, Florida 8 a.m. to 5 p.m.

Other conference calls can be set up with at least a week's notice.

Other Items

Boris Gisin gave a presentation on the needs and uses of flowgates. The topics that Boris covered include:

- MUST with flowgates
- Why do we need flowgates
- Flowgates in MUST
- Flowgate properties
- External versus internal flowgates
- Flowgate definitions versus real time values
- Reporting flowgates
- Centralized ATC/AFC calculation for ISO/ISN

Boris does not see the number of flowgates that will or could be used as a major problem. If there are a large number of flowgates, the performance hit will be small.

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The flowgate concept should be implemented in the MUST program by November 1998. Some preliminary flowgate analysis could be done for the October DFTF meeting in Orlando. A copy of Boris's presentation is attached.

Assignments

- Brian will locate the DFTF meeting minutes and ensure that they are posted on the DFTF web page.
- Brian will distribute the latest expense spreadsheet.
- All are to submit expenses to Brian for inclusion in the expense spreadsheet.
- Mat Long will merge the Modeling Guidelines, Procedures Document, and Monthly Updating Procedures and distribute it to DFTF.
- All are to review the mapping that is listed in the book of flowgates.
- All are to submit their outages to Chi by close of business September 18, 1998.

Adjournment

Chairman Long adjourned the meeting at noon on September 15, 1998.