



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Task Force

February 17–18, 1999
Renaissance Orlando Hotel, Airport
Orlando, Florida

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 |
| Patrick Shanahan | MAIN | Brian M. Nolan | NERC |

Administrative Matters

The Distribution Factor Task Force (DFTF) meeting was called to order at 1 p.m. on February 17, 1999 by Chairman Madison Long. Each representative introduced himself.

The December 7–8, 1998 meeting minutes were approved with modifications. The January 14, 1999 and February 9, 1999 conference call minutes were also approved with modifications.

Assignments from Last Meeting

- All are to go to the MAIN ftp site to review the SDX data for their Regions security coordinators. *Done*
- If the DFTF members have not received the user name and password, contact Roberto.
- Brian Nolan will ensure that the meeting minutes and roster on the DFTF web page are up to date. *Done, Revisit the Roster*
- All to submit final changes to the winter model by December 18, 1998. *Done*
- Chairman Long will redistribute the latest version of the Book of Flowgates to DFTF by December 18, 1998. *Done*
- 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. *Done*
- All are to review and finalize their list of flowgates in the book of flowgates.
- Chairman Long will inform Entergy, MAPP, and FRCC of the problems that are in the winter base case that need to be corrected. *Done*
- Chairman Long will contact David Zwergel to discuss the informational flowgates. *Done*
- Pat Shanahan will create a short write-up on surrogate flowgates. *In Progress*

Book of Flowgates

The book of flowgates needs to be finalized. The MAIN viewer program will read the OTDF label in the description and transfer this to the viewer screen, this will ensure that the user knows that the values are OTDF's.

The naming convention needs to be reviewed. In some cases the control areas and security coordinators are not in the correct order for the two element flowgates, and in the case of three element flowgates, there may be three control areas and only two security coordinators. It might be more useful to use a separate mapping file for the control areas and security coordinators.

To get a clean run on the flowgate file, Roberto may run the book of flowgates in a piecemeal manor. This will allow for the review and correction of one Region at a time. The official list of control areas and security coordinators are on the TIS web site.

Chi Tang will review the winter base case to see if any of the control areas in the base case do not conform to the acronyms on the TIS web site.

The 1000 series of flowgates appear to need some work on the mapping portion. An example would be 1009 where there are three control areas monitoring one monitored element. Charles Long will review this. Mat Long will request CP&L to review their flowgates to see if they would like them to be OTDF flowgates.

There are several flowgates reported by SPP that are duplicated in Entergy's security area. Prior to removal of the SPP flowgates, the flowgates reported by Entergy will be reviewed for accuracy. Additional duplicate flowgates were found in other Regions and removed.

The MAPP flowgates need to be reviewed. One flowgate in particular is 17-element flowgate. Each of the elements needs to be listed separately. New York will also need to list the elements separately. Greg Campoli has submitted a list of the separate elements of the multi-element flowgates to Chi Tang.

DFTF feels that it is not appropriate to apply a static rating to the flowgates, since they could be system condition dependent.

Mat Long will make all requested corrections and distribute the revised book of flowgates to Roberto and DFTF by Friday, February 19, 1999.

Implementation schedule

There are a few ways that DFTF can proceed with the implementation of the Book of Flowgates; piecemeal fashion or make wholesale changes. The projected implementation date is March 1, 1999. Having Roberto work closely with the Regions that have errors in their data would be a very good way to correct the problems that are remaining in the Book of Flowgates.

Each DFTF representative is to have all of their errors corrected and submitted to Roberto by February 25. Bill Pettit at Ontario Hydro can make wholesale changes to the flowgate database. There is a parallel effort that can take place with MAIN and Ontario Hydro. To get the process rolling, DFTF and Roberto will work on the mapping of the flowgates and control areas. In the second step, DFTF and Roberto need to map the flowgates to the transmission providers. The MAPP, Entergy, and Associated flowgates will need to be reviewed and corrected, by either that areas representative or DFTF. If DFTF is going to make the corrections for an area, that area will be notified.

IDC Schedule

It was discussed at the Common Information Model (CIM) forum last week that the IDC will be using a CIM model by the end of 1999. Currently SPP is the only Region moving towards a CIM model.

Surrogate flowgates, Roberto is proposing the use of a program to compare the flows on the problem line and comparing the square of the errors with other potential flowgates and selecting the one with the least error, something similar to the least square method. This program would be for use by the security coordinators at their site.

If the IDC is to be operational by June 15, DFTF believes that this would not be an appropriate use of resources unless the development and implementation is simple.

TPF Calculations

DFTF believes that this is an item that it will be asked to accommodate in the future. Patrick Shanahan gave a presentation on how a transaction can be monitored to “paint” the electrons as they cross from area to area, ensuring that they are not counted twice. This is an exercise that would have to be done for each branch. This process would have to be reviewed to ensure that double counting would not happen. Minor changes to existing programs might accommodate the TPF

Modeling Guidelines/Procedures Documents

Once the book of flowgates is implemented and the OTDF's are working correctly, DFTF will revisit the Modeling Guidelines/Procedures Documents. A few grammar items will be corrected and then forwarded to Roberto for posting on the MAIN web site.

SPSSTF, IDC, etc. Update

An IDC conference call on Thursday, February 18, 1999 will discuss the number of OTDF flowgates in the IDC system.

Other Items

SDX

Having to perform a partial derating, a unit in the current SDX system appears to be a problem. It would be nice to have the ability to do partial outages on a unit in situations of multiple boilers or partial outages.

The use of the SDX data has come into question, since the outages that are reported in the SDX system may or may not be verified as an actual outage.

Switching to the summer base case

Due to the changes that have occurred in the MMWG base case, DFTF needs to start thinking about switching to the summer base case. The summer base case should be ready for the June 1, 1999 trial run.

Billy Tiller will run his DIF program to see what areas have changed and where DFTF will need to spend the majority of its time correcting and adjusting.

Native Load Problems

DFTF discussed the following section of the NERC Response to FERC TLR Order:

Parallel Flows Associated with Firm Transmission Service to Network Customers and Native Load.

The Board directs the Security Coordinator Subcommittee to add, by the summer of 1999, a new step in the NERC TLR procedure, just prior to the step initiating curtailment of Firm Transmission Service. This new step shall require the calculation of the MW contribution to a constraint due to transactions using Firm Point-to-Point transmission service, and the MW contribution due to firm service to Network customers and Native Load. These would be the flows to be considered for curtailment in subsequent steps of the procedure if necessary to mitigate the constraint.

The Board also directs the subcommittee to develop a procedure to assist, where necessary, the transmission providers in coordinating redispatch or curtailment to mitigate overloads due to parallel flows from other systems' firm Network and Native Load service. The subcommittee shall report on the progress achieved on this item to the Board of Trustees at its May 1999 meeting.

Review Action Items

- Mat Long will make all requested corrections and distribute the revised book of flowgates to Roberto and DFTF by Friday February 19, 1999.
- Each DFTF representative is to have all of their errors corrected and submitted to Roberto by February 25.
- DFTF and Roberto will work on the mapping of the flowgates and control areas.
- DFTF and Roberto need to map the flowgates to the transmission providers.
- Mat Long will insert the MAPP flowgate elements.
- Chi Tang will contact Bill Pettitte about the switch over to the new book of flowgates.
- Billy Tiller will do a comparison of the new MMWG summer base case versus the current winter base case.
- Mat Long will contact Wayne Lewis and the SCS to inform them that DFTF is still looking at March 1, 1999 for implementing the revised book of flowgates.
- Brian Nolan will clean up the DFTF web site (roster, flowgate page, etc.).

Future Meetings

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|-------------------|-----------------|------------------|
| March 3, 1999 | Conference Call | 10 a.m. Eastern |
| March 23–24, 1999 | Charleston, SC | 8 a.m. to 3 p.m. |
| April 27, 1999 | New Orleans, LA | 8 a.m. to 3 p.m. |

Adjournment

Chairman Long adjourned the meeting at noon on February 18, 1999.