



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Working Group

August 27–28, 2001
Toronto, Ontario

Meeting Minutes

Attendance

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Administrative Matters

Chairman, Patrick J. Shanahan, called the Distribution Factor Working Group (DFWG) meeting to order at 1 p.m. on August 27, 2001. Each representative introduced himself.

The August 2, 2001 conference call minutes were approved with modifications.

Action Items

- Brian will work on having the DFTF web site converted to DFWG; this will include the list servers and roster. If there's not a coordination problem, the DFTFFG will be changed to DFWGFG.
- Brian will see about getting the DFTFFG messages posted to the CRC web site (crc.nerc.com).
- Brian will distribute the "cleaned up" version of the DFWG Scope, redline version of the Flowgate Administration reference document, and Base Case Guideline Procedure Document.

- Pat will talk to Nelson, OATI, to see if there is a way to do a comparison between the new and current base cases to find the areas where ownership information would be lost.
- Pat will fill in a granularity questionnaire based on St Joseph and Dynergy Riverside in the next week or two and distribute them to DFWG.
- DFWG will study pumped hydro's effects on the model and see if past problems can be eased with an increase in model detail.
- Scott will distribute the temporary flowgate-mapping file.
- All security coordinators should review the Book of Flowgates to see if any of their flowgates can be removed.

Full Registry Flag with CAs that Operate DC Ties

Scott and Julie are still waiting to hear from Lou Leffler on this item. This is an action item from the IDCWG, but there is no clear indication on what DFWG should be doing to satisfy this. Pat will write Lou a letter asking if DFWG should draft a change order.

MRD Resource File Management

This item was to create a list of generators for the MRD calculations in IDC. Chi created an Excel spreadsheet with the information that was needed and the format was accepted. This spreadsheet will be updated with the new base cases. Since the format has been accepted, Chi has been sending only the changes to the generators to Lou.

Jointly Owned Unit Representation For NNL and the Book of Flowgates

The ownership of units is more of an issue with the change of Season Case. The ownership should carry over from case to case, but with changes in numbering, the ownership data could be lost. The data is currently entered directly into the IDC, so OATI is the default owner of the data.

Pat will talk to Nelson, OATI, to see if there is a way to obtain the data.

Partial Phase Shifter Representation

Chi sent out a draft of the IDC Modeling Requirements for Partial Control of PAR Interfaces document and has not received any comments back as of yet. Draft 1.0 of the document and some sample calculations were reviewed.

Currently, the use of other phase shifters would not impact this calculation method. The current draft only considers phase shifters that are between control areas and not those internal to control areas. The internal phase shifters should be considered in the future.

There appears to be some accounting issues that need to be addressed, but the concept should work. This will be presented to Nelson to see if OATI agrees with the calculation methodology.

This calculation methodology does not fall under the current implementation of phase shifters, because it is partial control. A proposal will be sent to IDCWG with an offer to draft up the change order following the September conference call. Implementing the partial control phase shifter is not critical for the winter base case implementation.

August/September IDC Base Case Update

Changes to the base case have been received from MAIN and SPP and they have been incorporated into the September base case. This case will be sent to Nelson by August 27 for validation.

Document of IDC Modeling Processes

Pat distributed a rough draft of the IDC Modeling Processes last week. This draft was reviewed and modified.

Granularity Testing

There could be requests to increase or decrease the level of detail in the model. Both types of request would need to be reviewed by DFWG and or other NERC groups with DFWG recommendations. Pat presented a draft Granularity Review Questionnaire. Once the form is finalized, a procedural manual would need to be drafted on how to fill in the questionnaire and submit a request and what criteria needs to be met for approval.

Doing a test of the new system to a reference bus and comparing that to the original system to the reference will show the change of impact for each flowgate. This technique would work for merger of control areas and new generation. For more complex changes, a full analysis would be needed.

Pat will fill in the sample questionnaire based on St Joseph and Dynegy Riverside in the next week or two. If DFWG agrees with the samples Pat will present them to SCWG.

Pumped Storage Units

Some areas are having difficulty with pumped storage units switching into pumping mode. These problems have occurred during TLR's and late in the morning during peak days, and there has been no way to force them to stop pumping since they are being served by network service. Currently, the pumped storage load is treated as network load and is not tagged.

DFWG will study pumped hydro effects on the model and see if past problems can be eased with an increase in model detail. Changes in granularity would require changes in the way those schedules are currently tagged. This topic will be revisited at future meetings.

10,000 Level Flowgates

The data in the temporary to permanent flowgate mapping file needs to be reviewed and updated by members of DFWG. This will also be addressed in the flowgate administration. Scott will maintain the temporary flowgate-mapping file.

Flowgate Review

Brian will look into taking the DFTFFG list server messages and posting them to the CRC web site. This would satisfy part of the Flowgate Administration documents need for documenting the changes to temporary flowgates.

The length of time that a temporary flowgate exists was discussed. The draft document states 30 days, but that would require a large amount of administration and changes to the way that the IDC case is updated. Currently, the temporary flowgates are removed with each base case update. Having the document state that temporary flowgates expire with the next monthly or seasonal base case update.

Maintenance of the Book of Flowgates may be difficult. If a flowgate is removed and then added at a future date, unless the same flowgate number is used, the historic tracking of the data would be lost. This is an issue where DFWG should define what its needs are and submit them to OATI to see what can be done programmatically to satisfy the need.

All comments on the Flowgate Administration document should be submitted to Ben Li by September 12, 2001.

DFWG Structure Document

According to Ben, the DFWG does not need to review flowgates until the flowgate Administration document is finalized. The DFWG is not expected to review existing flowgates. The DFWG will further review the draft document and send final comments to Ben after its September 12 conference call.

IDCWG Update

With the number of TLR's called this year, there were some performance issues with the IDC. One solution that was offered was reducing the number of flowgates that are monitored. One consideration would be to have the ability to turn flowgates off and on in the model, possibly based on recent TLR use and percent of loading. Currently, DFWG is adding more flowgates than are being removed. For security reasons, many of the flowgates can't be removed.

With all of the IPP's that are being added and the minimal upgrades in the transmission system, there will be more flowgates added to the system in the future.

All security coordinators should review the Book of Flowgates to see if any of their flowgates can be removed.

Other Items

Converting to DFWG

The NERC DFTF web site needs to be converted to the DFWG. This will require changes to the directory and links to it. Email list servers (dftf and dftffg) also need to be updated.

The latest version of the DFWG Scope was reviewed, modified, and approved by the DFWG. This will be sent to SCWG for review and approval.

NERC Posting of DFWG Related Files

The base cases, Book of Flowgates, and scope need to be updated. A MUST formatted file of the Book of Flowgates and subsystem file also need to be posted. When it is ready for posting, a cross-reference file for the temporary to permanent flowgates would be posted on DFWG's web site.

Flowgate Review Questionnaire

Pat presented a draft set of Flowgate review questions that may be used for the Flowgate Administration process.

Future Meetings

September 12, 2001	Conference Call	2 p.m. Eastern for one hour
November 1–2, 2001	Atlanta	noon to noon
December 6, 2001	Conference Call	2 p.m. Eastern for two hours

Adjournment

Chairman Shanahan adjourned the meeting at 10:30 on August 28, 2001.