



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Working Group (DFWG)

September 15–16, 2003
St. Louis, Missouri

Draft Meeting Minutes

Administrative Matters

Chairman Patrick J. Shanahan called the Distribution Factor Working Group (DFWG) meeting to order at 2:00 p.m. Central on September 15, 2003. Attendance is listed in **Attachment A**.

Robert Rhodes will be leaving the DFWG after this meeting. DFWG will need to nominate a new Vice Chair and present it to the RCWG. Wayne Galli will be replacing Robert on DFWG.

The minutes from the April 22–33 meeting and the August 5 and September 3 conference call were reviewed and modified. These files will be redistributed for a final review. If no changes are received by September 22, 2003, they will be posted as the final versions of the minutes.

IDC Base Case Status

Status of September Base Case

The September base case was uploaded on September 9, 2003.

After the new base case was loaded, it was noticed that some generators were not modeled correctly in the NNL calculations. The units were modeled correctly in the base case and the SDX was not changing the status. A message was sent to OATI inquiring about this problem. OATI has not responded as of yet.

Based on the reading of the NNL calculation procedure, the IDC takes all of the units in the base case, changes their status to in-service, and then it applies the SDX file to the units. Therefore, these units were being accounted for in the NNL calculation, even though these units were really off-line. SDX was not able to turn these units off, since it had them modeled as off-line. Both of the systems are actually operating correctly, but there are philosophical differences between the ways the systems are interpreting the data.

DFWG needs to draft the issues that are being faced and offer up a couple of possible solutions to this problem. These issues will be sent to IDCWG for determination of the need to develop a change of scope to either the SDX or IDC.

1. Change the way that IDC interprets the SDX File
2. Change the way SDX sends the data to IDC
3. Change the base case to have all of the units on at some low MW value
4. Do nothing, and make the changes in the Flowgate GLDF area of the IDC

For units that have a status of in service, but are not to be included in the NNL calculation, the MBASE should still be set to zero.

Next Case to Develop

Since Grid America is moving over to MISO on October 1, 2003, DFWG will need to develop an October base case. Also, since IDC Change Order 114 had been approved, DFWG will need to regularly update the base case until CO-114 is implemented.

If the changes are primarily to the Book of Flowgates and not the base, the upload process is fairly easy.

To ensure that the modeling process is completed in time for the validation, all changes to the Book of Flowgates and the base case by September 22, 2003.

Prepare for Winter Case

In the past, DFWG has uploaded the winter base case in early December. Some discussion was held on uploading the winter base case in November. Due to some difficulty getting some of the data, a November upload may not be possible.

MISO does not want to hold up the development process, but they will not have the MAPP portion of the base case until the middle of November. Depending on the ease in which the MAPP portion will merge into the full model, Chi will need about a week to merge and tune the model.

The starting point for the winter model will be the TASG model, as this model is currently available. It is believed that all of the model updates will be to Chi by November 15, 2003. This should allow the completed model to be available for upload on the evening of December 1, 2003.

Ed will post the TASG base case to either the IMO or NERC ftp/website. The TASG model is developed in PSS/E rev 28, like the summer base case. DFWG will probably need to back step the model to rev 26. Changing the model back is possible, but it will require more work due to the number of groups that are using the new models functionality. Chi will make the first attempt at drafting the PSS/E change order, attempting to base the upgrade progression on the MMWG modeling effort. DFWG will attempt to get this change order implemented for the change over to winter base case. This will be dependent on the various backend systems abilities to handle the new formats.

Flowgate Administration

July/August/September FG Administration

The July, August, and September flowgate administration documents have been forwarded to the ORS. The next update will not be until October and will be addressed during the October conference call.

Activity on the DFTFFG

Since the September base case upload there has been a lot of activity on the DFTFFG list server. Some of the messages are for temporary activity and some are due to missing adding the permanent flowgates during the model update.

IDC Base Case Upload History

The base case upload history will continue to be maintained. Robert will pass this to Wayne.

Posting

The approved DFWG meeting minutes are being formatted for posting. The IDC reference base case, Book of Flowgates, and MUST files for the September upload have been posted.

Scott has posted the most recent version of the 10,000 Flowgate list to the DFWG list server. All representatives should review this file and make any changes by the end of October. The posting of this file will be coordinated with the November base case upload.

The NERC DFWG large files posting area is running correctly. The access to this site is for DFWG members and the IDC/SDX vendors. To access the website, DFWG members will need a NERC CRC user account.

SEAMS Issue – Evaluation of Marginal Zones

DFWG has been asked to review the zones that are recommended for the Marginal Zones. The initial proposal will be for only CE and not PJM "classic". Originally, it was expected that the initial zones would be for October 1, but this date is up in the air due to the Northeast blackout. The initial draft of the CE marginal zones should be out within the next week or two.

The Marginal Zones are an attempt to give the IDC a better picture of what generation would move in either a TLR or contract. This is the first attempt to add or increase the detail that is in IDC. PJM will determine the initial make up of these zones and forward them to DFWG for review, comment, and approval. Once approved by DFWG, the new marginal zones will be sent to ORS for final approval.

It is not expected that each generator would be a zone. This is due to the ability to glean too much information about the units.

Tests to be Performed

DFWG needs to determine the tests that are to be performed to ensure that the proposed zones are appropriate. Pat will load the information that Dave supplies to the DFWG into an Access database for analysis and distribute to DFWG. This will be discussed during the October conference call. After the numbers have been seen and reviewed, some criteria can then be drafted for future use. Most of the analysis will be non-statistical.

SEAMS Issue — Auditing SEAMS Data to IDC

There was some direction on how to audit the SEAMS data that is sent to the IDC in the SEAMS white paper *Appendix K*. One such suggestion is that the audits would initially be performed monthly, picking an hour of TLR activity. If this is successful, then they could move these audits to a quarterly basis. The audits need to be repeatable and verifiable calculations.

In the white paper, there was discussion of MISO and PJM auditing each other. DFWG would need to coordinate its audits with these two groups.

Pat documented several possible data items that would be needed to perform the required audits, as well as any additional data that is provided to the IDC. It would be best if this data could be provided in a usable data. How to access the archived data from the IDC and SDX will need to be determined. All of the collected data will need to be compared to the data internal to the IDC.

The initial reviews will be performed with collecting the data on the fly, based on what analysis will be needed. As this process is worked through, DFWG will have a better picture of what data is needed, and may initiate a request for change to the systems that the data is collected from to automate the data collection process.

DFWG will commit time to help develop the audit process and then hand that process to another group. Since DFWG does not have the resources available to continually perform these types of audits, NERC should consider either developing a group to perform the audits or contract it out. Then the DFWG would just maintain the position of reviewing the results.

How and when the dates/times are selected is yet to be determined. One option is to have NERC select the date and time. There may be multiple times when the data is requested. The audits would be set up once per month for the preceding month.

PAR Modeling

There is an existing change order (CO-38i) for the PAR Modeling. The implementation of this change order will be after the implementation of change order 114. Currently, only two of the four PARs are in service and only one is regulating.

The PAR modeling process may be useful as a proxy for the DC line outages. This type of outage is a critical outage in the MAPP area. The issue is primarily to deal with a protection scheme for Coal Creek.

MRD

On September 11, 2003, NERC filed with FERC indicating that NERC will no longer support the MRD program. A copy of this filing can be found on NERC's "FERC Filing" webpage.

Dependent on the need for FERC approval of NERC dropping the MRD process, the MRD resources may be deleted from the Book of Flowgates. This will be discussed with the IDCWG.

Documentation of IDC Modeling Processes

Pat will distribute the most recent version of the IDC Modeling Processes document. DFWG members should fully review the document and post comments to the DFWG list server. After a review, this document will be posted on the DFWG website as a draft version.

Future Conference Calls and Meetings

What	Date	Time	Location
Conference Call	September 30	10 a.m. Eastern 2–3 hours	Primary Date
Conference Call	October 6	9 a.m. Eastern 2 hours	Fallback Date
Meeting	November 12–13	noon-to-noon	Atlanta
Meeting	December 8–9	noon-to-noon	San Antonio, southeast, or Florida

Adjournment

Chairman Shanahan adjourned the meeting at 11:00 a.m.

DFWG Attendance List
September 15–16, 2003

Name	Representing	E-Mail Address
Pat Shanahan, Chairman	ATC	pshanahan@atcllc.com
Robert Rhodes, Vice-Chairman	SPP	rrhodes@spp.org
Matt McNeece	Entergy	mmcneec@entergy.com
Paul Graves	FRCC	Paul.Graves@pgnmail.com
Chi Tang	IMO	chi.tang@imo.com
Ed Ruck	MAIN	ehr@maininc.org
Jason Marshall	MISO	jmarshall@midwestiso.org
Phillip Shafeei	NYISO	pshafeei@nyiso.com
Dave Mabry	PJM	MABRY@pjm.com
Jim Busbin	SOCO	jybusbin@southernco.com
Wayne Galli	SPP	wgalli@spp.org
Dan Kehoe	TVA	djkehoe@tva.gov
Nelson Burks	VACN	nelson_burks@dom.com
Don Reichenbach	VACS	dereiche@duke-energy.com
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