



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Working Group

November 12–13, 2003

Atlanta, Georgia

Meeting Minutes

Administrative Matters

Chairman Patrick J. Shanahan called the Distribution Factor Working Group (DFWG) meeting to order at 2:15 p.m. central on November 12, 2003. Attendance is listed in **Attachment A**.

Jim Busbin has agreed to serve as vice-chair of DFWG with no dissent from group members. Pat will take this recommendation to RCWG for approval.

The minutes from the October 22, 2003 conference call were approved with modifications.

IDC Base Case Status

November Case

The November base case was uploaded on November 4, 2003.

Winter Base Case Preparation

Since the release of Trial 1, Chi has received several sets of changes. Trial 2 will be released on November 17, 2003. Chi will need to review the new seasonal case to ensure that the dummy generators are included in the correct areas. DFWG will continue to ask that Chi create the DIFF files for the monthly and seasonal base cases.

The base case and IDEV's are all being written in PSS/E rev 28. OATI currently cannot accept a PSS/E rev 28 base cases. One of the problems that DFWG will face if rev 28 is not being used is the creation of STAR busses from the three winding transformers in the conversion back to rev 26. The names of these busses are rather generic, so Chi will distribute these busses to DFWG for possible renaming in the model and SDX system. Last year there were about 150 to 200 of these star busses, but more entities are using the three winding transformer models, so the number of star busses may increase.

Until the full model is converted back to rev 26, the IDEV changes should be in rev 28. After the change, they should be in rev 26. DFWG will stay with rev 26 until the next base case change.

Future BOF Changes

MRD Flowgates

The title of the MRD Flowgates sheet will be converted to Benchmark Flowgates in the Book of Flowgates. Once this is done, DFWG will need to notify ORS, and revise FG Admin ref doc. Also, the Book of Flowgates will need to be changed to accommodate the three winding transformers.

To ensure that OATI does not have as much difficulty with this change, DFWG will notify OATI of the change.

Marginal Zones

On October 22, 2003, Dave Mabry submitted draft changes to the Book of Flowgates. The changes were reviewed by DFWG. The two primary changes were a Coordinated Flowgate column in the Flowgate tab and marginal zone mapping in the new Region tab.

On the Region Tab, the "Control Area" column is used to tie all of the base case "zones" together in to one entity.

Other Changes

There are still some issues with the System Flows flowgates. Several links on this site are shown in red, showing that no data is being received. If the system flows list is to be kept by NERC, then it needs to be updated or deactivated. Several flowgates were updated to change the direction of the flow, but this was never updated on the System Flows.

Flowgate Administration Reference Document

Jim Busbin distributed revision 2 of the Flowgate Administration document. This version contains comments received by Jim and other editorial comments. The Glossary of Terms in the Book of Flowgates will need to be updated to bring it into sync with this document. Prior to changing the glossary, it will be confirmed with OATI that changes to this page will not affect them. Jim will make the agreed on changes and redistribute the document for one final review prior to submitting it to ORS.

Action Item: Pat will develop an initial draft of the Flowgate Review Process document mentioned in the Flowgate Administration Reference Document.

Flowgate Administration

The October Flowgate Administration document was finalized. The November Flowgate Administration document was reviewed and approved. Pat will forward these documents to ORS for approval.

Marginal Zone Analysis

Review of Draft Criteria

Pat drafted a criterion for Marginal Zones. Thus far, he did not receive much in the way of feedback. To match up with the sample set of zones that Dave submitted, Pat increased the percent reaction. One of the goals was to keep any one unit from being a zone in itself.

From the draft Criteria Document:

Marginal zone evaluation will be based upon the current IDC monthly base case without SDX outages modeled. Under evaluation case conditions the following numerical guidelines should apply:

1. For Flowgates Internal to the LMP market: Units should be within 20% of the weighted DF for zone.
2. For Flowgates Internal to the LMP market and used for TLR: Units should be within 10% of the weighted DF for zone.
3. For Flowgates within External to the LMP market: Units should be within 5% of the weighted DF for zone.
4. For Flowgates within External to the LMP market and used for TLR: Units should be within 3% of the weighted DF for zone.

The criteria that caused most of the fails are the Internal not used for TLR. An alternate set of criteria percentages was also tested.

In the initial trial of the ComEd zones, the western zones failed the evaluation. This is possibly due to the fact that they are closer to many of the TLR's. The other area that had difficulty passing the evaluation was the far south zone.

Adjustments Needed

A few of the zones in the ComEd and PJM need reviewing.

DFWG will work up a "zone" approach that does not use the power flow control areas to define the marginal zones. This will need to be coordinated with Chi and OATI.

The criterion that is developed for Marginal Zones may need to be incorporated into a reference document. One possible location for this would be a general modeling reference document.

SEAMS Issue — Auditing SEAMS Data to IDC

DFWG will need to develop a list of data that it would need from OATI/IDC to perform the needed audits. It was noted that data pulls from the IDC have a cost associated with it. This data would be used to validate the data that PJM is sending and that they are being used properly.

Some information that would be needed to perform the audits:

- GSF (about 40 Meg per hour zipped)
- Outages in effect at the time
- Tag Information
- TLR Reports
- Other items

All of the data that is related to a TLR is archived, but the other data may or may not be archived.

The initial rounds of audits are to be performed on a monthly basis and then it would move to quarterly. DFWG offered to assist in the initial reviews, but would expect NERC to contract this out after the process is identified.

Base Case Guidelines Reference Document

The group revisited a much older draft version and discussed the sections. Discussed revisions will to be placed into the document.

Timetable

- Increased regular meetings (monthly) and meeting length
- Formalization of process and eventual turning over to RCWG/ORS

Conversion to PSS/E Version 28

Jim Busbin will begin drafting the Change Order for OATI's conversion from PSS/E rev 26 to rev 28 and how the three winding transformers should be handled.

Future Conference Calls and Meetings

What	Date	Time	Location
Conf Call	Dec 8 or 9	TDB	Cancel date held for meeting – need to schedule conf call during same period.

What	Date	Time	Location
Meeting	January 13–14	noon-to-noon	Check if IDCWG would like a joint meeting in San Antonio
Meeting	February 23–24	noon-to-noon	In a Hub City
Meeting	April 6–7	noon-to-noon	Charleston

Adjournment

Chairman Shanahan adjourned the meeting at noon on November 13, 2003.

Attendance

Name	Representing	E-Mail Address
Pat Shanahan, Chairman	ATC	pshanahan@atcllc.com
Paul Graves	FRCC	Paul.Graves@pgnmail.com
Chi Tang – Conference	IMO	chi.tang@imo.com
Ed Ruck	MAIN	ehr@maininc.org
Jason Marshall	MISO	jmarshall@midwestiso.org
Phillip Shafeei – Conference	NYISO	pshafeei@nyiso.com
Dave Mabry	PJM	MABRY@pjm.com
Jim Busbin	SOCO	jybusbin@southernco.com
Wayne Galli	SPP	wgalli@spp.org
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Nelson Burks	VACN	nelson_burks@dom.com
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