



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Working Group

September 7–8, 2005
St Louis, Missouri

Minutes

Administrative Matters

The Distribution Factor Working Group (DFWG) meeting was called to order at 1 p.m. on September 7, 2005. The meeting attendance list, announcement, and agenda are affixed as **Exhibits A, B, and C**, respectively.

Future Meetings and Conference Calls

Group	Date	Times	Location
DFWG	October 12, 2005	2 –5 p.m. EDT	Conference Call

IDC Base Case Status

Members of the DFWG are concerned with the continued use, through time, of a planning model to represent the Eastern Interconnection instead of an operations model. Therefore, the DFWG formed a team to determine the future of the model and options available. This team will be led by Jason Marshall. Team members are Pat Shanahan, Phil Shafeei, and Kannan Sreenivasachar. The team will also examine the possibility of creating a dynamic model by obtaining the model directly from State Estimators (i.e., node breaker model). The DFWG noted that the significance of the impacts to the IDC and SDX would need to be further explored.

NERC Factor Viewer

Jeff Norman provided an overview of the newly implemented NERC Factors Viewer (NFV). Methods for obtaining access to the viewer, as well as the current capabilities and future utilization, were also discussed.

Flowgate Administration

The July and August monthly reports for changes to the model were developed by Pat Shanahan. As the previous chair of the DFWG, Mr. Shanahan managed all reporting functions. The reports have been developed through a series of macros that create the FG Admin workbook. Jeff Norman has been asked to update the macros, and turn them over to Kannan Sreenivasachar, who will then assemble the reports each month for the DFWG. NERC will also begin posting the documents on the DFWG Web site.

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The DFWG agreed to continue using the FG Admin workbooks in the reporting to the Operating Reliability Subcommittee. However, Jim Busbin stated that he would obtain feedback from the Operating Reliability Subcommittee regarding possible changes to the information provided in the DFWG monthly reports. The DFWG will also review the original reporting charge from the Operating Reliability Subcommittee.

Relevant IDC Change Orders

CO-143

The DFWG plans to use three-winding transformers in the winter 2005/06 model. However, the members stated that they do not understand the process used by the IDC to model the three-winding transformers. Therefore, OATI will be asked to provide written documentation in order to explain the process before the winter model is implemented. Kannan Sreenivasachar stated that the timeline for developing the version 0 model is ten days from the date when the Transmission Access Standing Group (TASG) base case is received. Recommended tests for the use of three-winding transformers in the IDC should be forwarded to Jim Busbin. Jason Marshall stated that MISO may not be ready to begin submitting three-winding transformers for the winter 2005 model. Notification of the inclusion of three-winding transformer models will be discussed once the IDC modeling process is better understood.

Discussion continued regarding any differences that may be seen in transfer distribution factor (TDFs) between models utilizing the PSS\E Ver 26 representation of three-winding transformers and models utilizing the PSS\E Ver 26 representation. A team was formed to examine these differences — Armando Rodriguez, Jason Smith and Phillip Shafeei.

The DFWG also discussed problems associated with the three-winding transformer model. The group discussed the need to verify the IDC calculations using inert test three-winding transformer data.

CO-38i (PAR)

The IDCWG's progress in creating and testing CO-38i is considered sufficient by the DFWG. The involvement of the DFWG will now be limited to monitoring any changes in flow associated with the new functionality. Jim Busbin will ask the IDCWG if the DFWG should compare the TDFs in the IDC and PSS/E model. If requested, Jason Smith and Armando Rodriguez will complete the comparison.

Posting

The items currently posted on the DFWG Web site are considered to be up to date.

Documentation of IDC Modeling Process

Base Case Guideline Procedure Document

This document will be reviewed and approved via conference call on a section-by-section basis by the DFWG.

Other

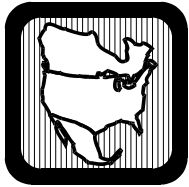
Six-Month Evaluation of PJM's Marginal Zones

In December 2004, the Operating Reliability Subcommittee requested that the DFWG re-evaluate PJM's marginal zones after six months. Jim Busbin stated that this issue would be addressed at a future meeting.

Creation of ReliabilityFirst

The MAIN TASG base cases may not be available after the upcoming winter series, due to the consolidation of ECAR, MAIN, and MAAC into *ReliabilityFirst*. Brian Nolan will ask the Multi-regional Modeling Working Group (MMWG) for a list of concerns regarding the creation of *ReliabilityFirst*. Mr. Nolan noted that the MMWG uses AEP and Powertech Labs to assemble their models. The earliest possible date for the creation of *ReliabilityFirst* is January 1, 2006.

The DFWG meeting was adjourned at 9:37 a.m. on September 8, 2005.



NERC

Exhibit A

Distribution Factor Working Group (DFWG)

Wednesday, September 7, 2005 — 1 p.m. to 5 p.m.

Thursday, September 8, 2005 — 8 a.m. to Noon

MEETING LOGISTICS AND REGISTRATION FORM

Hotel	Embassy Suites 901 North First St St. Louis, MO
Phone and fax	Ph: 314-241-4200
Room rate	\$119 single/double occupancy
Block Name:	"DFWG Meeting"
Room block	Night of September 7, 2005
Reservation cut-off date	August 15, 2005 (NOTE: After this date, the hotel will release this block of rooms and only accept reservations on a space-available basis.)
Check-in and check-out times	Check-in: 3 p.m. Check-out: noon
Transportation	The hotel is located about 20 minutes from the airport. • Shuttle service is available at baggage claim. Approximately \$18 • Taxi: Approximately \$30
Hotel reservation instructions	When making your hotel reservation, please be sure to mention the "NERC/North American Electric Reliability Council" meeting to get the preferred rate and to ensure your reservation is credited to the NERC room block. <i>NERC may be charged a penalty if the total rooms blocked for this event are not picked up.</i> Also, if you use a travel agency for your travel plans, please make sure the agency mentions NERC.
Attire	Business casual

Please type or print.

Name:			
Title:			
Company:			
Telephone:			
E-mail:			
Attending:	<input type="checkbox"/>	Not Attending:	<input type="checkbox"/>

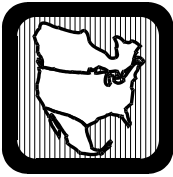


Exhibit B

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Distribution Factor Working Group Meeting

Wednesday, September 7, 2005 —1 p.m.–5 p.m.
Thursday, September 8, 2005 – 8 a.m.–noon

Embassy Suites
901 North First St.
St Louis, Missouri 63102
Phone: 314-241-4200

Agenda

1. **Introductions**
2. **Administrative**
 - a. Arrangements
 - b. Review of NERC Antitrust Compliance Guidelines
 - c. Review of NERC Parliamentary Procedures
 - d. Approve and set timing for agenda. Closed sessions will be conducted as required.
 - e. Approve minutes from the June 3, 2005 meeting
 - f. Future meetings and conference calls
 - i) Future Meetings
 - g. Action Item List – *Information*
3. **IDC Base Case Status**
 - a. Monthly
 - b. Seasonal
4. **Flowgate Administration**
5. **Future of Book of Flowgates (BoF)**
6. **Relevant IDC Change Orders**
 - a. IDC CO-143 (Conversion of IDC Input Format to PSS/E Version 28)
 - i) Approval of industry notification of three winding transformers in the BoF
 - b. Change Order 38-1 (PAR Control)

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7. **Posting**
8. **Documentation of IDC modeling processes**
9. **Other**
10. **Adjourn**

Exhibit C

Distribution Factor Working Group Meeting Attendance September 7–8, 2005 St. Louis, MO

Name	Organization	E-mail
Jeff Norman	NERC	Jeff.norman@nerc.net
Armando M. Rodriguez	TVA	arodriguez@tva.gov
Jason Marshall	MISO	jmarshall@midwestiso.org
Paul Graves	Progress Energy	Paul.graves@pgnmail.com
Brian Nolan	NERC	Brian.nolan@nerc.net
Patrick Shanahan	ATC	pshanahan@atcllc.com
Jason Smith	SPP	jsmith@spp.org
Phillip Shafeei	NYISO	pshafeei@nyiso.com
Kannan Sreenivasachar	IESO	Kannan.Sreenivasachar@ieso.ca
Dave Mabry	PJM	mabry@pjm.com
Jim Busbin	Southern Company	jybusbin@southernco.com