



# NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

## **Distribution Factor Working Group**

August 31 – September 1, 2004  
St. Louis, Missouri

### **Meeting Minutes**

#### **Administrative Matters**

Chairman Patrick J. Shanahan called the Distribution Factor Working Group (DFWG) meeting to order at 1:00 p.m. on August 31, 2004. Attendance is listed in Attachment A.

#### ***Meetings***

April 23–24, 2004 minutes were approved with modifications.

#### ***Conference Calls***

May 24, 2004 minutes were approved with modifications.

#### **IDC Base Case Status**

##### ***September Base Case***

The September base case will be uploaded on September 1, 2004. There were minor changes to the model and Book of Flowgates.

##### ***Future Case Schedules***

#### **October**

For the October base case, the following Duke control areas are being decertified: Hanging Rock and Washington, also, Dayton, ComEd and AEP will also be decertified as all of these will be moving into the PJM market.

The model update for the control areas decertification is fairly simple. Most of the work will be in the changes required in the Book of Flowgates. The ORS will need to review and possibly approve the marginal zones.

The model update will need to take place on October 1, 2004.

#### **November**

For the November base case, the Dominion control area will be decertifying and moving into the PJM market.

The model update will need to take place on November 1, 2004.

#### **December (cutover to winter model)**

This would be the first model in revision 28 of PSS/E. To ensure that users of the model and outage data are aware of the pending changes, a notification will be sent to a list of user and committees about the change. DFWG members should also address this within their committee structures. If need be, the use of the three winding transformers can be staged in.

Chi will request the TASG base case for the 2004/05 winter. This case will be modified as needed for use in the IDC, saved and then converted back to Rev 26. Both of these files will then be made available to the IDC and SDX vendors.

For the Book of Flowgates, can a flowgate cover all three legs of a three winding transformer or would this be considered a multi element flowgate? This may require a change to the format of the Book of Flowgates. There will also need to be some coordination between the vendors on modeling of the contingent elements and the Book of Flowgates.

### ***IDC Case Building Lessons Learned***

Version 6 of MUST handles three winding transformers. One issue that was noticed in an earlier version of MUST was that it truncates the name of the flowgate, thus causing several that were similarly named to be the same name.

### **Relevant IDC Change Orders**

#### ***Conversion to PSS/E Version 28***

This change order has been approved for implementation to the ORS in September for approval. Both the IDC and SDX vendors have asked that a Rev 26 and 28 base cases be posted for download. This would be for the evaluation of their systems.

There will need to be some testing of the back end processes used by entities that will be submitting SDX data. This will be to ensure that outages are submitted in the Transformer section of the file. If the transformers are not included in the Transformer section they will not be taken out of service in the IDC.

Notifications will need to be made to the industry about the change from Rev 26 to Rev 28. The primary reasons for this is that many of the users will not be expecting the new format and/or the transformer table. The model users will need to be identified.

Groups that need to be notified:

RCWG, IDCWG, SDXSDWT, LTATF, (NERC AFC groups), PC, and OC

#### ***New CO for Modeling Marginal Zones as Zones Within the IDC***

A change order for converting marginal zones to zones has been drafted, but has not been submitted to IDCWG for review and evaluation. The use of these zones may be beneficial for Option 1 of the IDCGTF white paper. Having zones in place prior to implementing Option 1 could prevent some work and rework of the IDC.

There may be issues with the use of zones in the IDC that will need to be addressed, such as generation that is not party to that zone.

#### ***Use of Permanent Flowgate Numbers***

A change order will be drafted requesting the ability to insert permanent flowgate numbers when developing temporary flowgates. One of the issues with this is the inability to reuse flowgate numbers. Another is the current distribution of flowgate numbers among the Reliability Coordinators. DFWG believe that this should be drafted so the various issues can be discussed at IDCWG.

### **Flowgate Administration**

#### ***Write-up From MAIN***

The write-up from MAIN regarding flowgate number 12148 was reviewed and accepted by DFWG. This will be submitted to ORS in September.

### ***Flowgate Administration Spreadsheets***

The following Flowgate Administration documents will be presented to the ORS at its September meeting — May, June, July, and August. The September Flowgate Administration document was reviewed and approved for submission to ORS and will be presented at the September meeting.

### **Marginal Zone Analysis**

#### ***Additional PJM Marginal Zones for AEP and DPL***

Pat Shanahan has rerun the marginal zone evaluation process on the current model for the potential new PJM marginal zones. This is the preliminary evaluation, since there are a few zones that will go away in the migration. The evaluation will help DFWG and PJM get a better understanding the proposed marginal zones and see if the current marginal zones need to be tweaked any.

Pat will rerun this analysis, with some additional screening, then send the results to Dave Mabry and DFWG for review. A conference call will be held for review and approval.

One note, if the review and screening criteria were applied to a control area as traditionally modeled, it would fail the evaluation. The process of creating marginal zones is to see if the failure criteria can be reduced.

#### ***Review the Marginal Zone Criteria***

DFWG reviewed the marginal zone document.

### **Next Call/Meeting**

<b>What</b>	<b>Date</b>	<b>Time</b>	<b>Location</b>
Conference Call and WebEx	September 3, 2004	2 p.m. Eastern	
Conference Call	Early October		As needed to prepare month case and FG reporting
Meeting	November 3–4, 2004	1 p.m. to 5 p.m. 8 a.m. to Noon	Indianapolis
Conference Call	December		Winter Base Case, as needed to prepare month case and FG reporting
Meeting	January 6–7, 2005	St Louis	January As needed to prepare month case and FG reporting (Embassy)

Meetings should be posted on the NERC web site.

### **Adjournment**

Chairman Shanahan adjourned the meeting at 11 a.m. on September 1, 2004.

## Attendance

<b>Name</b>	<b>Representing</b>	<b>E-Mail Address</b>
Pat Shanahan, Chairman	ATC	<a href="mailto:pshanahan@atcllc.com">pshanahan@atcllc.com</a>
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