



# NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

## Distribution Factor Working Group (DFWG)

February 27–28, 2002  
Denver Airport Marriott at Gateway Park  
Denver, Colorado

### Meeting Minutes

#### Administrative Matters

Chairman, Patrick Shanahan, called the Distribution Factor Working Group (DFWG) meeting to order at 1 p.m. on February 27, 2002. Each representative introduced himself. Attendance is listed in **Attachment A**. The minutes from the January 25, 2002 conference call were approved with modifications.

#### Action Items

- Scott and Jason will provide follow up information on flowgates 6100 and 6101 by March 8, 2002.
- Pat will distribute a draft cover letter for RAWG, by March 8, 2002, that will summarize the information that Scott and Jason will be submitting.
- DFWG is to review the 10,000 level flowgates during the week of March 4, 2002. The approved document will be posted with the Book of Flowgates on the CRC web site by the end of that week (by March 8).
- Robert will create a history of when DFWG submitted base cases to OATI for loading and when they were actually created.
- Pat will send Brian the modified draft of the Guidelines for Base Case Guideline Procedure Document for formatting. Brian will distribute the formatted document to IDCWG.
- Jon will put together some background information on the pumped storage issue for IDCWG to review and discuss at their next meeting.
- Brian will have the DFTF-FG list server renamed to DFWG-FG.
- Brian will see about getting the temporary flowgate definitions posted to the CRC web site. This is due to the requirements in the Flowgate Administration Document.

#### Base Case Status

Due to the change in the implementation date of E-tag 1.7, OATI has asked that there be no changes to the IDC base case between April 1 and April 10. With the implementation of PJM West, PJM would like to have a new model implemented prior to April 1. DFWG is not sure that if it submits a new base case prior to April that it will be implemented by April. AEP will have a significant number of IPPs coming online this spring and will need a new case.

It looks like there will be three new models prior to summer -- a March 31st, possibly a mid-April, and June 1 for the summer base case. For the March model, DFWG would need to get the new model to OATI by March 25. This would allow OATI time to validate the model and then load the model. All changes to the model and Book of Flowgates should be submitted to Chi by March 11.

With the modeling of GRE into three areas, the NNL calculations will need to be modified. Julie is addressing this with IDCWG, so DFWG need not get deeply involved at this time.

TVA is currently acting as the RA for EKPC and Big Rivers. They will be acting as the RA for AECI in April. The change for AECI can be addressed by changes to the Book of Flowgates.

### ***Summer Base Case***

In the past DFWG has used the VEM/MEM base case. With the ongoing effort of the new NERC PSAST study group, it would be advantageous to use the PSAST model for the upcoming summer, since it will have been updated by all of the interregional modeling groups. Data Submittal Schedule – Base Case and Book of Flowgates

- Brian will distribute Trial Zero to DFWG by mid-March
- Chi will distribute Trial One around April 1
- Chi will distribute Trial Two by mid-April
- Send base case to OATI by May 1 for validation

### **Flowgate Administration**

#### ***FG Review Questions***

Pat distributed a sample flowgate review questionnaire. The questionnaire was merged into the Flowgate Administration workbook that was distributed with the questionnaire. Flowgate 6100 and 6101 were reviewed. Scott and Jason will provide follow up information on these flowgates. There are relevant meetings in MAPP and MISO to discuss these flowgates. MISO will send supporting documentation to DFWG by March 8, 2002.

#### ***Approval/Recommendations for February Flowgate Changes***

The February Flowgate data was updated with several additional Flowgates that were not included in the initial list. Those changes were unanimously approved by the DFWG.

#### ***10,000 Level Flowgates***

Scott distributed the most recent version of the 10,000 level flowgates. DFWG will review this document by early next week. The document will be posted with the Book of Flowgates on the CRC web site later next week (by March 8).

#### ***Discussion of Items for Report to RAWG***

Pat will distribute a draft cover letter, by March 8, 2002, that will summarize the information that Scott and Jason will be submitting.

#### **IDC Base Case Upload History**

Robert will create a history of when DFWG submitted base cases to OATI for loading and when the cases were actually loaded. This list would include the base cases that were never loaded. Issues that delayed the loading should be noted.

## Documentation of IDC Modeling Processes

The guidelines for Base Case Guideline Procedure Document were reviewed and modified. A revised draft of the document will be distributed at the April meeting.

### Granularity

#### *Pumped Hydro Issues, Bath County Study*

Jon Riley discussed the Pumped Hydro issue. Most significant is the different impacts that Pumped Hydro units have on the system when either generating or pumping. The biggest issue is that these units are not accounted for as load when they are in the pumping mode in the IDC model for the NNL calculation process.

There may be a way to address this within the SDX by changing a unit from positive to negative generation. Given the current SDX system, the PMAX could be entered as a negative value to represent the pumping mode. OATI would need to modify its process to account for these negative values for the NNL calculation process. It may be easier to model pumping as a negative generation than a load. A load would have to be manipulated with SDX data with consideration for islanding effects. Using negative generation, the NNL reports may use a LSF' (Load Shift Factor) calculated from the LSF and negative generation (pumping). How TDF calculation would use negative generation would also need to be considered. Jon and Pat will try to put together some of the ideas for possible Change Order consideration at a future meeting.

### Other Items

#### *Status of Change Order for Partial PAR Control Modeling*

This has been forwarded to OATI for evaluation.

#### *Status of Change Order for Modeling Joint Units in TDF Calculation*

This has been forwarded to IDCWG and should be evaluated by IDCWG at its next meeting.

#### *IMO-MECS PARS*

PS51 will be in service mid-March. PS4 will be installed by November.

### Future Meetings and Conference Calls

Conference Call	March 15 at 10 a.m. (2 hr)	Finalize Flowgate administration report for RAWG
Conference Call	March 26 at 2 p.m. (1 hr)	Summer base case development
April 24–25, 2002	New Orleans	Meeting noon to noon

Flowgate Administration issues need to be processed on a monthly basis. Pat suggested holding a conference call or meeting each month on the week after case data is due.

### Adjournment

Chairman Shanahan adjourned the meeting at 10:30 a.m. on February 28, 2002.

## Attendance

<b>Name</b>	<b>Representing</b>	<b>E-Mail Address</b>
Patrick Shanahan, Chairman	MAIN	<a href="mailto:pshanahan@atcllc.com">pshanahan@atcllc.com</a>
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Chi Tang	IMO	<a href="mailto:chi.tang@theimo.com">chi.tang@theimo.com</a>
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Dave Mabry	PJM	<a href="mailto:mabry@pjm.com">mabry@pjm.com</a>
Jason Marshall	MISO	<a href="mailto:jmarshall@midwestiso.org">jmarshall@midwestiso.org</a>
Robert Rhodes	SPP	<a href="mailto:rrhodes@spp.org">rrhodes@spp.org</a>
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Nelson Burks	VACN	<a href="mailto:nelson_burks@dom.com">nelson_burks@dom.com</a>
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