



# NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

## Distribution Factor Task Force

March 1–2, 2000  
Caribe Royal Resort  
Orlando, Florida

## Meeting Minutes

### Attendance

Madison Long, Chairman	SERC	Sharon Palmer	SERC
Jonathan Riley, Vice Chairman	ECAR	Linda Ponseti	Entergy
Thomas Vitez	ECAR	Lanny Nickell	SPP
Dave S. Mabry	MAAC	Chi Tang	Canada
Patrick J. Shanahan	MAIN	Pat Hanse	Enron
Julie Pierce	MAPP	Conrado Caunan	NERC
Greg Campoli	NPCC	Brian M. Nolan	NERC

### Administrative Matters

Chairman Madison Long called the Distribution Factor Task Force (DFTF) meeting to order at 1 p.m. on March 1, 2000. Each representative introduced himself.

The January 18–19, 2000 meeting minutes was approved with modifications. All of the action items from the January 18–19, 2000 meeting were either completed or are work in progress.

### Assignments From Last Meeting

- Brian will see about having the DFTF roster reference the Security Coordinator that they represent instead of the Region they are from. This is still open.
- Mat Long will make another draft of the Book of Flowgates for review prior to sending it to the CMWG. Completed
- Chi will draft a proposal for the implementation of PAR modeling by the IDC. This will be sent to the DFTF for review. Completed
- Chi will take DFTF's comments on the flowgate definitions to Ben Li. Completed

**NERC DFTF —Meeting Minutes**

## **SDX Issues**

If there is a significant difference between the previous base case and the new base case there can be some problems. Extending the SDX data to include the 161 kV transmission lines will be a large undertaking. DFTF believes that this is an issue that the Security Coordinators need to address. If the Security Coordinator believes that the lower voltage transmission lines for their area are important then they should add them. If a lower voltage line is part of a flowgate then it must be added. The use of the bulk power system systems definition should be used here. Any system that has inter-area effect should be included in the SDX system. This would allow an adjacent area to request lines not in its area to be reported.

Conrado will develop an import function that will read a PTI RAWD format and populate the SDX program. Where a common name is not in the SDX program it will be up to the Security Coordinator or Control Area to give it a common name. The Security Coordinator or Control Area are to send to Conrado a RAWD file, in names format, that contains all of the facilities (generation and transmission) that they want added.

To get the common name from the SDX to the IDC, send a file to OATI that includes the common name, from bus name, and to bus name.

The MBASE will be the default value now when a unit is to be outaged. Synchronous condensers should have a zero MBASE.

In the event of a control area that does not have generation or generation online it would be better to scale load instead of turning on a generator. This will be sent to IDC for consideration. If there are control areas that do not have load or generation (generation or generation online) then station service needs to be modeled for load scaling.

Conrado will see about getting the SDX system to handle compound units. This will allow for the removal of part or all of a compound unit, with out doing each one individually. With the rewrite of the SDX System, Conrado will create some documentation.

## **2000 Summer Base Case**

There are a lot of differences from the current case to the 2000 summer base case. The control area renumbering is a minor problem, but the changes to the bus names are a major problem. This is mostly because the 2000 summer base case is from the new series of MMWG base cases. MAIN and SPP still need to add their updated models. Changes to the flowgates are to be sent to Mat, changes to the model are to be sent to Chi.

Chi will send out trial 1 on March 6. All base case changes are to be sent to Chi by March 17, this includes new models. Chi will send out Trial 2 on March 24. Mat will then send out the list errors that need correction after Trial 2 is distributed. These errors will need to be address and the model and the Book of Flowgates will need to be aligned. The new base case is to be implemented on May 1.

Enron is looking to add a three more control areas. These will need to be incorporated in the new base case. These control areas need to be registered with NERC.

## **Modeling PARS in IDC Base Case**

Chi distributed a write-up on modeling PARS. For the PARS not listed on the handout, they would be modeled as fixed angle PARS. It may be possible to handle the switching PARS from fixed angle to fixed MW regulation. Conrado will look into allowing SDX to accommodate the angle and MW

selection. Chi, Greg, Tom, Jon, and Dave will discuss with OATI the modeling PARS for phase 2 of IDC.

DFTF should review Chi's PAR write-up and get all comments to Chi by March 10, 2000.

### **Modeling Sub-Control Areas**

How to handle load, with no generation, internal to one control area that is being controlled by another control area was discussed. There are tagging issues that will need to be resolved prior to DFTF taking a position on the modeling issues. DFTF should check to see, if there were an unlimited capability, how many of these areas would be added to the case. DFTF will also check with PTI to see what the limit is for zone modeling.

### **TPF Calculations (painting MWs')**

DFTF discussed the TPF calculation method that Pat Shanahan distributed to the group. This method is a better attempt to remove over and undercounting of MW's. The results from this method could be larger or smaller than that of the GAPP method.

### **NERC, CMWG, IDCWG updates**

The biggest item that affects DFTF from a NERC standpoint is whom we report to.

### **Review Action Items**

- Brian will see about having the DFTF roster reference the Security Coordinator that they represent instead of the Region they are from.
- Mat will discuss Phase angle separation as it pertains to operating limits with Ben Li.
- Brian will check on the restructuring of the NERC Committees.
- Conrado will develop an import program that will read RAWD format.
- SC/CA's are to send a RAWD file that includes all of the facilities that they wish to add to the SDX system.
- SC/CA's are to add common names to the SDX data file.

### **Future Meetings**

April 25–26, 2000	New Orleans	Noon to Noon
June 28–29, 2000	Toronto (Sky Dome/with IDC)	2 to 5 and 8 to 3

### **Adjournment**

Chairman Long adjourned the meeting at noon on March 2, 2000.