

**Minutes**  
**Working Group on Switching and Overcurrent Protection**  
**Task Force on Distribution Networks**  
**Task Force on the Application Guide for Faulted Circuit Indicators**  
**January 30, 2001**

The Working Group on Switching and Overcurrent met on Tuesday, January 30, 2001 from 8AM to 11PM. Minutes from the previous meeting were read and approved.

The Task Force on Distribution Networks reviewed the status of the Network Tutorial. Twelve of the fifteen chapters are close to completion and have been formatted according to IEEE standards. Two of these will be re-organized. The remaining three chapters will be submitted by April. Five appendices are complete. We will be contacting IEEE to establish a web site for the Tutorial so Task Force members can better communicate any proposed changes. Members will begin reviewing the document as a whole to ensure that the chapters do not contain conflicting information.

The Task Force on the Application Guide for FCI reported that the Single Phase Guide has been accepted by IEEE and will soon be printed. Work is now beginning on the Three Phase Guide. The new PAR for this work will include "Three-phase underground" in its title. We discussed how ICC members could contribute to this new Guide. We agreed that we needed a liaison to attend both PES and ICC meetings; Dave Donovan and Harry Hayes volunteered. This Task Force has already reviewed the Single Phase Guide and identified the parts that will need to be changed for the new 3 $\Phi$  Guide. A list of potential changes was generated at the last ICC meeting as well. This list was read by Dave Donovan and will be sent to John Banting. John will highlight the potential changes on the Single Phase document, to give us a starting point. We will extend an invitation to the ICC members to join us in writing the new Guide. An IEEE web site might be helpful for this work.

It was pointed out that the IEEE 495 Test Guide is no longer available. This Guide is in the process of being re-affirmed. We do recognize that it should be reviewed to see if any revisions are appropriate. Before the review a new PAR will be needed.

We discussed the progress of SCC 1547, the standard for connecting D.G. to the Distribution System. This Standard will be sent out to ballot shortly. As more D.G. is connected to utilities' distribution systems there may be a need for a D.G. application Guide. We will request examples from utilities of D.G. interconnection.

A concern was raised on the low power factors that are seen in distribution networks. Power Factors as low as 0.7 are observed in downtown areas. One utility reported that P.F. has been observed to decrease as load increases. It was pointed out that a P.F. close to unity may not be desirable in a spot network as this can impact auto-reclosing on network protectors. Transformers carrying load may have to be loaded to 100% or more before an out of service transformer's NP will auto reclose.