



CIGRE Study Committee N° B4

PROPOSAL FOR CREATION OF A NEW WORKING GROUP

WG* N° B4.53	Name of Convenor : Dan Kell (Canada)
Title of the Group : Guidelines for procurement and testing of STATCOMs	
<p>Scope, deliverables and proposed time schedule of the Group :</p> <p>Background : A static synchronous compensator (STATCOM) is a reactive power regulating device based on the voltage sourced converter (VSC) used to maintain ac system voltages and enhance the stability of the ac system. As these power electronic devices are becoming more and more prevalent in the power-system, it is becoming more important than ever to have a set of guidelines in place to enable the industry to adequately procure and test these devices to ensure safe, efficient and reliable operation, while maintaining the capability to allow the “future-proofing” of the system for future upgrades</p> <p>Scope : This WG’s task will be to gather the knowledge of technical people concerning the procurement and testing of STATCOMs and produce a report that will allow the planners/engineers of the utility to specify and test the STATCOM such that it will offer safe, efficient and reliable operation. This WG plans to incorporate the best practices as determined by a panel of experts which will include representatives from utilities with STATCOMs presently in operation in their system, manufacturers of STATCOMs and consultants.</p> <p>Tasks : The following is a brief overview of the WG activities:</p> <ol style="list-style-type: none"> 1. Create a questionnaire for STATCOM owners and a separate one for STATCOM manufacturers 2. Create a brief overview of STATCOM systems and its applications 3. Categorize the types of procurement strategies and the impacts on the specification (i.e. technical versus functional) and its contents 4. Create an example methodology in order to evaluate and compare tender proposals 5. List the requirements for a successful project implementation 6. Describe the various tests required during the various stages (from pre-commissioning to system tests) to full test the STATCOM and auxiliaries. <p>Deliverables : Technical brochure with summary in Electra</p> <p>Time Schedule : Starting end of 2010 Final report : 2013</p>	
Comments from Chairmen of SCs concerned :	
<p>Approval by Technical Committee Chairman : Klaus Fröhlich Date : 24/10/2010</p>	