

CIGRE Study Committee A1

PROPOSAL FOR THE CREATION OF A NEW WORKING GROUP (1)

WG* N° A1.39	Name of Conven	or:Howard Sedding (CA)	
	E-mail address: I		
Technical Issues # (2): X	XXXXX	Strategic Directions # (3): 2	
The WG applies to distribution networks (4): No			
Title of the Group: Applic coils and bars	cation of dielectric	dissipation factor measurements on new stator	
Scope, deliverables and	proposed time so	hedule of the Group :	
Background :			
This WG is intended to support the work of IEC TC2 WG29 that is currently developing an IEC standard for dielectric dissipation factor measurements of stator coils and bars, and in particular what are acceptable limits of dissipation factor and tip-up.			
Scope :			
The purpose of the working group is to clarify a number of questions related to the use of dielectric dissipation factor measurements to new stator coils and bars for installation in turbogenerators, hydrogenerators and motors.			
In particular, the working g report covering the followin - Determination of h worldwide to asses - Identify the method = Review criteria bei	roup will develop ang: ow widespread diel s stator insulation. ds of test employed ng used to interpre	a questionnaire, perform a survey and prepare a lectric dissipation factor methods are used t dielectric dissipation factor measurements.	
Deliverables : Report to Electra	be published in E	lectra or Technical Brochure with summary in	
Time Schedule : start: No	ovember 2012	Final report: September 2014	
 TOR submitted for Draft questionnaire Comments by men Final questionnaire Survey – answers Draft report – Augu Comments by men Final document (Re Approval of final document 	approval on Septe by November, 20 nbers and experts - e – April 2013. – July 2013 ust 2013 nbers and experts - eport or Technical ocument – Paris 20	mber, 2012 12 - February 2013 - SC-A1 Colloquium Romania 2013 Brochure) – March 2014 14.	
Comments from Chairmen of SCs concerned :			
Approval by Technical Committee Chairman : Date : 11/11/2012 M. Wald			
(1) Joint Working Group ((4) Delete as appropriate	JWG) - (2) See att	ached table $1 - (3)$ See attached table 2	



Table 1: Technical Issues of the TC project "Network of theFuture" (cf. Electra 256 June 2011)

1	Active Distribution Networks resulting in bidirectional flows within distribution level and to the upstream network.
2	The application of advanced metering and resulting massive need for exchange of information.
3	The growth in the application of HVDC and power electronics at all voltage levels and its impact on power quality, system control, and system security, and standardisation.
4	The need for the development and massive installation of energy storage systems, and the impact this can have on the power system development and operation.
5	New concepts for system operation and control to take account of active customer interactions and different generation types.
6	New concepts for protection to respond to the developing grid and different characteristics of generation.
7	New concepts in planning to take into account increasing environmental constraints, and new technology solutions for active and reactive power flow control.
8	New tools for system technical performance assessment, because of new Customer, Generator and Network characteristics.
9	Increase of right of way capacity and use of overhead, underground and subsea infrastructure, and its consequence on the technical performance and reliability of the network.
10	An increasing need for keeping Stakeholders aware of the technical and commercial consequences and keeping them engaged during the development of the network of the future.

Table 2: Strategic directions of the TC (cf. Electra 249 April 2010)

1	The electrical power system of the future
2	Making the best use of the existing system
3	Focus on the environment and sustainability
4	Preparation of material readable for non technical audience