**CIGRE UK Technical Committee Meeting**

11th November, 2010 Warwick

# Report from Study Committee B3 – Substations

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## 1. Scope of B3

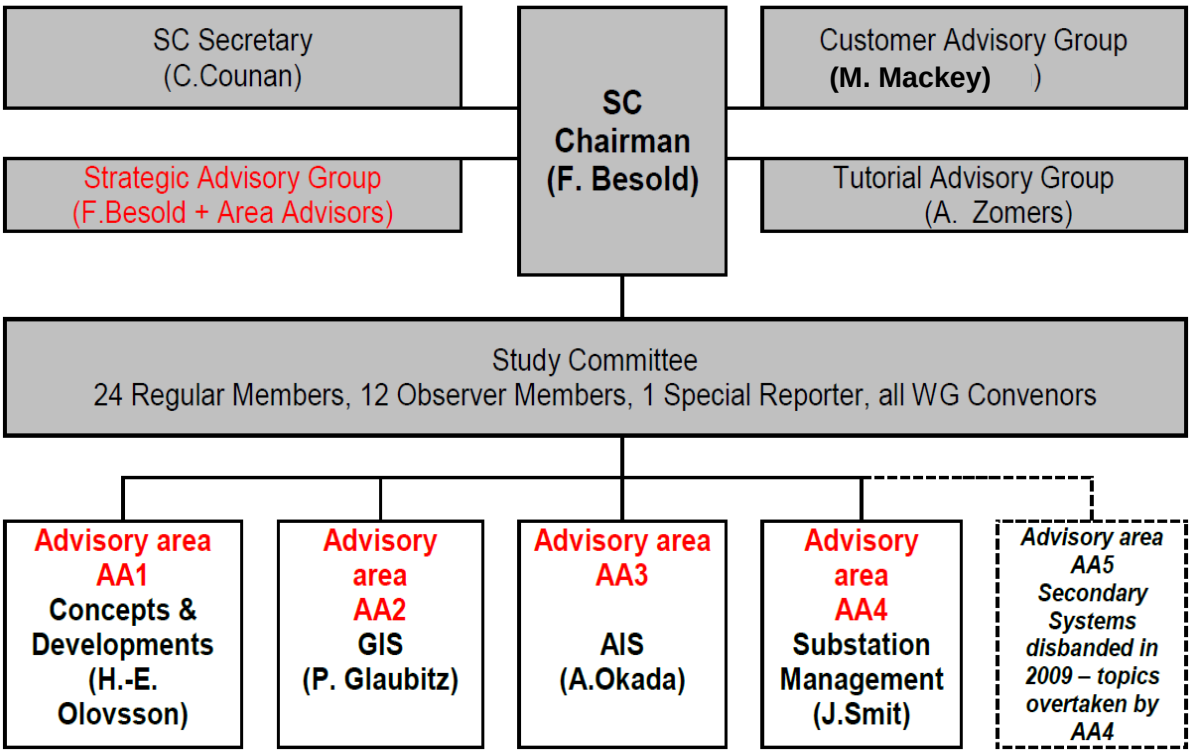
*The design, construction, maintenance and ongoing management of substations and electrical installations in power stations (excluding generators).*

## 2. Management of the Study Committee

Chairman: Franz Besold (Switzerland) - *Term of office ends 2012*

Secretary: Claude Counan (France)

The structure of the Study Committee is as follows:



# 3. SC B3 Activities

## 3.1 Advisory Groups

The SC has 3 advisory groups.

***Strategic Advisory Group***

The SAG has the following tasks:

- Update of the Strategic Plan and of the Action Plan
- Discussing and preparing proposals for future activities
- Establishing new Working Groups
- Selection and preparation of future meetings
- Screening and reporting of the activities of Working Groups and SC members
- Issuing proposals to the Technical Committee
- Support of the SC Chairman
- Cooperation with other international bodies such as IEE, IEEE, CIRED, VDE

The SAG has the following objectives over the period 2010-12:

- Update of the Strategic Plan 2005-2014
- Update of the Action Plan 2010-2012
- Preparation of the joint IEEE/CIGRE Meeting scheduled for May 15-19$^{th}$ 2011 in Chicago/USA
  - Meeting SC B3 agenda and input
  - Joint Colloquium and Tutorial CIGRE SC B3/ IEEE
- Preparation of the next CIGRE Session 2012 in August 2012 in Paris

***Customer Advisory Group***

The current CAG activities are:

- Identify opportunities to increase customer satisfaction
- Collect relevant feedback from CIGRE customers
- Prioritize new work and suggest preferential subjects
- Develop and implement concepts for active communication with customers
- Report on the above for discussion during the meetings of the study committee.

Key tasks are

- Comprehensive analysis of Paris Session Survey
- Review / Revise New Work Proposals
- Optimise exposure opportunity during Chicago Colloquium
  - Step 1 : Flyer
  - Step 2 : Other initiatives
- Develop documentation to help members justify CIGRE participation

***Tutorial Advisory Group***

SC B3 has been asked to deliver a number of tutorials and presentation during the 2011 IEEE/CIGRE SCB3 events in Chicago.

## 3.2 Advisory Areas

***Area AA1 – Concepts & Developments***

- TF B3.01/3 "Compacting S/S's Through Insulation Reduction" (F.Gallon)

  Brochure to be published Autumn 2010. Work to be continued in SC C4.

- WG B3.12 "Obtaining Value from Condition Monitoring" (A.J. Mackrell)

  Due to complete work in Oct 2010.

- WG B3.13 "Reducing Replacement Time of HV Equipment" (F. Gallon)

  New WG.

- WG B3.26 "Guidelines for the Design and Construction of AC Offshore Substations for Windfarms" (J.Finn)

  Electra article planned October 2010. Brochure to be completed in 2011.

- JWG B3/C1/C2-14 "Circuit Configuration Optimization" (G. Lingner)

  Problem with C1 and C2 participation – most probably a new WG and new TOR

***Area AA2 – GIS***

- WG B3.17 "GIS Residual Life Time" (K.Pohlink)

  Planned to complete work in November 2010.

- WG B3.25 "SF6 Gas Analysis for AIS, GIS, MTS assessment" (E.Duggan)

  New WG started 2010.

- WG B3.29 “Field Test Technology on UHV Substation Construction and Operation” (K.Uehara)

  New WG.

- WG B3.30 “Guide to Minimize the Use of SF6 during Routine Testing of Electrical equipment” (S.Stangherlin)

  New WG.

- JTF B1/B3.33 “Feasibility of a common dry type interface for GIS and Power cables of 52kV and above” (P. Argaut)

  New work.

- *JWG B3/B1.27 “Factors for Investment decisions GIL versus Cables” (H. Koch)*

  Planned work.

- *New WG under preparation “Single Line Diagram Layout – Gas Compartments : Optimization and reliability”*

  Planned work.

- *New WG under preparation “PD Monitoring Systems for GIS” (M Reuter)*

  Planned work.

***Area AA3 – AIS***

- WG B3-21 “Turnkey Substations” (T.Kertezs)

  Brochure to be completed in 2010.

- WG B3-23 “Guideline for Uprating & Upgrading of Substations” (H.Imagawa)

  New WG.

- TF B3-31 “Substations in Severe Climate Conditions” (M.McVey)

  New work.

- WG B3-32 “Saving Through Optimised Maintenance of Air Insulated Substations” (T.Messinger)

  New work.

***Area AA4 – Substation Management***

- JWG B3-06 “Substation Management” (J. Smit) :
  - TF 01 “Maintenance and Organization - Practical Aspects for Outsourcing Utility Services”
  - TF04 “Replacement Philosophy for Substation equipment”
  - TF05 “Practical Application of AM Information Strategies”

## 4. Paris 2010

The conference was held on Friday 27th August. The proceedings are summarized in the Discussion Meeting summary.

http://www.cigre.org/userfiles/sessions/DAILY%20SUMMARIES_DISCUSSIONS_2010.zip

## 5. Future meetings and colloquia

5.1 2011 Chicago

The Study Committee will hold a joint meeting with the IEEE Power Engineering Society on 15-19 May in Chicago.

The meeting includes tutorials and a colloquium to which SC B3 will contribute..

5.2 2012 Paris

Paul Fletcher
10 November 2010