



2009 Activity Report

Study Committee B5

1. Highlights

- New Strategic and Action Plan has been published.
- New Tutorial AG

2. Working group changes since the last TC meeting:

a. New WG

B5.39 – Documentation requirements from design to operation to maintenance for DSAS.

B5.40 – Education, Qualification and Continuing Professional Development of Engineers in Protection and Control.

B5.41 – Investigation & Improvement Possibilities for Metering Systems for Billing Purposes

b. WG Disbanded

B5.10 – Protection of series compensated lines.

B5.13 – Acceptable functional Integration in HV Substations.

B5.19 – Protection relay coordination.

B5.20 – New trends for automatic fault & disturbance analysis.

B5.21 – New local P&C approaches to minimise impact of system disturbances.

B5.32 – Functional Testing of IEC 61850 based systems.

B5.34 – Impact of renewable energy sources & distributed generation on S/S P&A.

B5.38 – Impact of security requirements.

B5.94 – High Impedance Faults.

c. Total number of WGs

- The SCB5 has 18 active WG.

3. Publications

a. Publications since the last TC meeting (April 2008)

B5.13 – Acceptable Functional Integration in HV substation – TB 404 – Electra 248 (February 2010)

B5.32 – Functional Testing of IEC 61850 Based Systems – TB 401 – Electra 247 (December 2009)

B5.94 – High Impedance Faults – TB 402 – Electra n° 247 (December 2009)

b. Publication plan for the coming year

WG B5.04 – Techniques for protection & monitoring of generating plant

WG B5.05 – Transformer protection monitoring control

WG B5.06 – Maintenance strategies for SAS

WG B5.07 – Techniques for protection & monitoring transmission Lines

WG B5.08 – Refurbishment Strategies.

WG B5.10 – Protection of series compensated lines

WG B5.16 – Modern Techniques for busbar protection

WG B5.19 – Protection relay coordination

WG B5.20 – New trends for auto fault & dist. analysis

WG B5.34 – Impact of renewable energy sources & distributed generation on S/S P&A

WG B5.38 – Impact of security requirements

ELECTRA paper “IEC 61850 Process Bus”

4. Tutorial and workshops in 2009

“Experience in the protection of multi-circuit & multi-terminal lines and power transformers.” Jeju (October 2009)

5. Strategic Plan and Action Plan:

Strategic and Action Plan re-written

6. Planned SC meetings (in 2009 and next)

SC B5 Meeting during Paris Session (27/08/2010)

SC B5 Colloquium and Meeting in Lausanne (Switzerland) (September 2011)

7. Participation to Regional Meetings, colloquia and symposia:

a. In 2009

- Actual trends on Development of Power System Protection and Automation – Moscow (Russia) – September 2009
- Advanced Power System Automation annual Protection APAP 2009 – Jeju (Korea) – October 2009

b. In 2010 and beyond

- Bi-annual Cigré B5 STPC (Technical Seminar on Protection and Control) Recife Brazil – October 2010

8. Relations with other organizations

SCB5 experts for IEC 61850 are also involved in parallel IEC, IEEE and IEE activities.

Liaison with IEEE PSRC.

Liaison with IEC TC 38.

9. Specific actions for the recruitment of young experts

Young engineers are members of several new WGs: B5.24, B5.39, JWG B5/B4.25 and JWG D2/B5.30

10. SC website: on-line contents and date of last update

Date of last update: 31 March 2010

Updated list of Working Groups

Minutes of last SC meeting

TORs for the existing WGs

New pages for new WGS

Updated list of WG members

11. Miscellaneous

SAG Meeting in Baden, CH. (May 2009)