



2012 Activity Report

Study Committee B5

1. Highlights

- 4 New Working Groups launched and 6 disbanded.
- 7 Publications in year 2011 and 3 scheduled for year 2012.
- 4 Tutorials
- Participation to 4 Regional Meetings

2. Working group changes since the last TC meeting:

a. New WG

JWG B5/D2.46 – Applications and Management of Cyber Security Measures for P&C Systems.

WG B5.47 – Network Protection Performance Audits.

WG B5.48 – Protection for developing network with limited fault current capability of generation.

WG B5.49 – Protection & Automation of Shunt Capacitors.

b. WG Disbanded

WG B5.04 – International Guide on the Protection of Synchronous Machines.

WG B5.05 – Techniques for protection monitoring of generating plan.

WG B5.06 – Maintenance strategies for SAS.

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

WG B5.12 – Engineering Guidelines for IEC61850 Based Substation Automation Systems.

JWG B5/B4.25 - Impact of HVDC station on Protection of AC Systems.

c. Total number of WGs

- The SCB5 has 18 active WG.

3. Publications

a. Publications since the last TC meeting (April 2011)

WG B5.04 – International Guide on the Protection of Synchronous Machines
TB 479 – Electra 258.

WG B5.05 – Transformer protection monitoring control

WG B5.06 – Maintenance strategies for SAS. TB 464 – Electra 256

WG B5.07 – Techniques for protection & monitoring transmission Lines.
TB 465 – Electra 256

WG B5.12 – Engineering Guidelines for IEC61850 Based Substation
Automation Systems. TB 486 – Electra 256

“How to complete a substation automation system with an IEC 61850 Process
Bus” – Electra 255

JWG B5/B4.25 – Impact of HVDC station on Protection of AC Systems.
TB 484 – Electra 259

b. Publication plan for the coming year

WG B5.36 – Application for protection schemes based on IEC 61850.

WG B5.31 – Management of Protection Settings.

SCB5 – Protection and automation – Annual report.

4. Tutorial and workshops in 2011 and 2012

“IEC 61850 – Moving towards Edition 2” Lausanne (Switzerland) (September 2011)

“Reliability – Centered maintenance of IEC 61850 Based System”. Actual trends on
Development of Power System Protection and Automation – Moscow (Russia) – June
2011

ELECRAMA 2012. Bombay (India) (January 2012)

- “Reliability – Centered maintenance of IEC 61850 Based System”.
- “IEC 61850 – Moving towards Edition 2”.

5. Strategic Plan and Action Plan:

No modification of Strategic and Action Plan

6. Planned SC meetings (in 2012 and next)

SC B5 Meeting during Paris Session (2012)

7. Participation to Regional Meetings, colloquia and symposia:

- CIGRE Australia South East Asian Protection & Automation Conference, Sydney, March 2011
- Actual trends on Development of Power System Protection and Automation – Moscow (Russia) – June 2011
- CIGRE Symposium The Electric Power System of the Future - Integrating supergrids and microgrids, Bologna, Italy – September 2011
- Advanced Power System Automation annual Protection APAP 2009 – Beijing (China) – October 2011

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: B5.39, B5.42 and B5.43

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

Date of last update: 8 march 2012

Updated list of Working Groups

Minutes of last SC meeting

TORs for the existing WGs

Updated list of WG members