DATE

STUDY COMMITTEE B2

Terms of reference of Working Group B2.52

Working Group Title: THE USE OF ROBOTICS IN ASSESSMENT AND MAINTENANCE OF OHL	
Convenor: André Leblond (Canada)	**Secretary:**

Needs of Target Groups: SC B2 Strategic Plan, July 2009

- Methods that will increase the reliability of lines

Background

In order to maintain or increase the reliability of aging OHLs, new robotic technologies are becoming available to assess and diagnose the condition of various OHL components. Inspection and maintenance of OHLs by using robots can reduce the potential risk to maintenance crews (e.g. live-line working), reach hardly accessible spans (e.g. river crossings), perform tedious labour faster, and decrease costs.

This follows on from the 1st Conference on Applied Robotics for the Power Industry (CARPI) held in October 2010.

Terms of Reference

Review the existing and developing robotic technologies for effective implementation, assessment and maintenance of OHLs in order to :

- Assist overhead line engineers to improve line reliability and restoring integrity;
- Assist asset managers in investing in further development and implementation of these technologies.

Specific Actions to meet the key needs are:

- Produce a TB and an ELECTRA paper by the Paris 2014 meeting.
- Produce a Tutorial in 2015.

Major Links with other Groups

- ► SCs :- None
- ► WGs :
- ► IEEE: - WG on Overhead Conductors
- ► IEC :- TC11 – MT1 & WG09 IEC

Approval by Technical Committee Chairman: **Klaus Fröhlich**
Date: 17/05/2011