STUDY COMMITTEE B2

Terms of reference of Working Group 08

Working Group title: Transmission Line Structures	
Convenor: João B.G.Ferreira da Silva	***Secretary:*** David Hughes

Terms of reference:

The scope of work for WG08 covers the review and update the knowledge of OHL supports used in the existing lines and/or to be used for new lines.

It comprehends research, design and construction aspects of the OHL supports as well as the inspection and assessment methods of existing ones. Innovative solutions and/or special supports for OHL crossings are also focused. Improving the mechanical reliability of the OHL supports is another essential issue to be dealt with.

Deliverables:
An Action Plan was set up in 2004 to close all the on-going projects till 2007. The expected deliverables in that period are:

1. **TF2 – Variation in Tower Strengths:**
   Part III - "On the Failure Load of Transmission Line Steel Towers considering the Design Techniques and Material Properties"
   Target – Sept. 2004 - ER

   Part IV – On the Failure Load of Transmission Line Steel Towers Considering Uncertainties Arising from Manufacturing & Erection Processes
   Target – Dec.2006 – ER
   - TF2 Tutorial

2. **TF3-Towers for New Lines – New Concepts and Design Parameters**
   3.1 – Innovative Solutions for Overhead Line Supports
   Target – Sept. 2007 – ER & Brochure
   - TF3 Tutorial

   3.2 – Comparison of General Practices for Lattice Tower Design and Detailing
   Target – Dec. 2004 – ER & Brochure

3. **TF4 – Discrepancies between Predicted and Measured Values of Load in Members of Towers during Tests:**
   - Influence of the Hyperstatic Modelling

   Target – Sept. 2005 – ER & Brochure
   - Possible TF4 Tutorial

4. **TF5 - Improvement of Tower Testing Methodology**
   Target – Dec. 2005 – ER & Brochure

5. **TF6 - Large Overhead Line Crossings**
   Target – Dec. 2007 – Brochure

6. **Joint TF - WG07 & WG08:**
   Tower/Foundation Interconnection
   Target – Dec. 2006 – ER & Brochure

Links with other SCs:
SCs :- None
WGs :- B2WG06, B2WG07, B2WG11, B2WG16
IEC :- 60826, P652
ASCE: 10-97

Approval by Technical Committee Chairman: Aldo Bolza Date: February 4, 2005