



Study Committee No : B1

WORKING BODY FORM

Group No : WG B1.25

Name of the Convener : Pierre Mirebeau (FR)

TITLE of the Group : Advanced Design Of Laminated Metallic Coverings

Background:

WG 21.14 published in 1992 "Guidelines for tests on high voltage cables with extruded insulation and laminated protective coverings". Numerous improvements appeared on laminated coverings since then in parallel with field experience. We now have a feed back relative to their use as a function of the length to be laid, the installation method (ducts, directly buried...), the environment, the design of the metallic screen (aluminium, copper wire screen + aluminium, copper...), the connection and grounding of the screen (single point, cross bonding, double point)...

In parallel, new processes and new installation methods have appeared.

○ **Terms of Reference:**

- To review and update the tests on cables with extruded insulation and laminated protective coverings taking into account the system view, i.e. the installation of accessories. Tests on cable, on accessories and on the system itself should be addressed, including the short circuit one
- To issue a Guide to Use for non experts explaining what could be the different cable designs

Scope of work :

- Extruded cable systems only
- AC cable systems only with a focus above 36 kV
- Land cables

Deliverables:

The output should be an updated recommendation for tests on high voltage cables with extruded insulation and laminated protective coverings that includes a guide (for non-technical readers) with the aim to get customers to reference this guide. Moreover, the WG will provide an Electra article and a Tutorial for presentation at Cigre conferences and workshops.

Created: **2006**, Duration : **3 years**

Members : Australia, Brazil, China, Finland, France, Germany, India, Italy, Japan, Norway, Sweden, United Kingdom, United States

Approval by TC Chairman : Klaus Fröhlich

Date : Jan. 9th, 2007