



Study Committee No : B1

WORKING BODY FORM

Group No : WG B1.29	Name of Convener : Steve Swingler (UK)
TITLE of the Working Group :	Guidelines for maintaining the integrity of XLPE transmission cable accessories
Background: The work is motivated by the occurrence of disruptive failures of cable end terminations, with consequent risks for personal and material loss and damage.	
Terms of Reference: The scope shall be limited to land XLPE cable systems at 110 kV and above. Priority shall be given to outdoor and oil-immersed terminations, but also joints (that are not directly buried) shall be considered. The work shall concentrate on recent incidents, but near misses shall also be included in the analysis. The WG shall: <ul style="list-style-type: none">• Review recent experience with failures of outdoor and oil-filled terminations• Review the consequences of termination failures for cables within substations and outside.• Examine the role of design, assembly and quality control in mitigating the effects of termination failures• Examine the role of testing (development, type, routine & after-laying) and condition monitoring in minimising the incidence or severity of termination failures• At the SC B1 meeting in 2010, the WG shall provide recommendations on possible extensions of work into joints (not directly buried), and accessories for oil-filled cable.• The full report shall be made available for final review at the B1 annual meeting in 2011.	
Deliverables: <ul style="list-style-type: none">• An Executive Summary article for Electra• A full report to be published as a Technical Brochure• A Tutorial	
Created: 2008 Duration: 3 years	
WG members from: AU, BE, BR, CA, FR, DE, IN, IT, JP, KR, NL, NO, ES, CH, UK, US	
Other stakeholding SC's: B2, B3, C3	
Approval by TC Chairman : Klaus Fröhlich	Date : 03/11/2008