



Study Committee A2

Working Group Form

WG N°: A2.33	Name of convenor: A. Petersen/AU
Title of working group: Transformer Fire Safety Practices	
Context Fire hazard and fire risk of transformers is separated into two categories: fire victim and fire origin. Precautions for each category should be taken into account in the design and the installations requirements. IEC TC 14 has shown an interest to integrate recommendations regarding transformer fire into the relevant standards. SC B3 will support this work.	
Scope and aim The aim is to prepare recommendations for transformer fire safety practices that will help transformer designers and users to define and apply best practices in the domain of transformer fire. The scope shall cover different parts, mainly: <u>Avoidance of tank rupture</u> The objective is to define key parameters influencing tank ruptures. Results obtained by model simulation, laboratory testing and experiences during service life might give an overview of the state-of-the-art in that domain. <u>Precaution to fire victim</u> The objective is to set recommendations for space separation, flame propagation prevention with: liquid containment, fire barriers, extinguishing system, etc. <u>Precautions to fire origin</u> The objective is to set recommendations for electrical, thermal and pressure protection. Considerations on the selection of fire resistant materials and dedicated design rules shall also be treated.	
Deliverables/time schedule <ul style="list-style-type: none">- January 2007: Starting of the Working Group- End of 2008 : Interim Report- Paris Session of 2010 : Final Report (TB), Electra	
Papers issued: <ul style="list-style-type: none">- Fire Avoidance in transformer substation, D. Allan (UK) (to be published in Electra)- Prevention of tank rupture due to internal fault of oil-filled transformer, T. Kawamura and co-authors, Report CIGRE A2-1988	
Approved by TC chairman : Klaus Fröhlich Nov. 22 nd , 200	Date: