

CIGRE Study Committee N° D1

PROPOSAL FOR CREATION OF A NEW WORKING GROUP

WG* N° D1.34	Name of Convenor : Sudhakar Cherukupalli (CA)
Title of the Group: Condition assessment for self-contained oil-impregnated insulation used in ac cables	
Scope, deliverables and proposed time schedule of the Group :	
Background : There are a large number of self-contained fluid-impregnated cables that approaching the end of their estimated lifetime and decisions will have to be made regarding their continued use. Although there are a number of tests such as DGA that are used to assess the condition of cables, several utilities report cables with abnormal characteristics such as high levels of gases that usually indicate moderate to severe degradation. However, the cables still seem to operating satisfactorily. In addition some utilities report a discrepancy between PD and DGA data.	
Scope : <ul style="list-style-type: none">▪ Conduct a survey of utilities to determine:▪ Status on diagnostic methods for these type of cables▪ Status on DGA for defect recognition -interpretation criteria▪ Extent of the problem (cables giving abnormal DGA, etc data) and determine what tests are being done to verify the cable condition▪ Status on paper ageing kinetics for EOL estimation▪ Define need for research	
The focus of the work is on test methods. However, the intent here is also on data interpretation not just test methods showing the sensitivity, but without defining criteria.	
Deliverables : Report to be published in Electra or technical brochure with summary in Electra	
Time Schedule : start : 2009 Final report : 2012	
Comments from Chairmen of SCs concerned : B1	
Approval by Technical Committee Chairman : Klaus Fröhlich Date : 16/12/2009	