

TF B1.78 Status detection, condition monitoring and rejuvenation for power cables

DESCRIPTION: At present, many in-service cables are aging. As the primary cause for insulation aging and failures of XLPE cables at lower voltages, water tree aging would severely impact the secure operation of cables. Water tree rejuvenation is a technology to address the water tree aging issue. A possible WG would specify the key technical parameters for the physicochemical and mechanical properties of the rejuvenating fluid (including AC breakdown strength, DC volume conductivity, elongation at break, etc.). The proposed TF is aimed to verify what is already covered in other TBs and ongoing WGs, to check what is the interest across Countries, to check if existing patents are affecting the possibility to have a CIGRE work and to confirm then if a WG is needed. In case of positive outcome the TF will prepare the ToR for a the future WG