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INSULATION CO-ORDINATION CONCEPTS BASED ON IEC 71 – 1 AND IEC 71 – 2. OPERATIONAL EXPERIENCE OF 420 KV NETWORK IN EPS OF MACEDONIA

ABSTRACT

This paper presents the procedure for insulation co-ordination, which is performed on insulation of overhead lines and substations. There are also presented concepts of insulation co-ordination of the 420 kV equipment of the Macedonian power network in its first phase of construction, and there are also presented experiences connected with using of equipment. Shortly are presented some new directions connected with insulation co-ordination of newly build objects, like substation “Skopje V” and overhead lines “Bitola II – Skopje IV”, “Dubrovo – Stip – Cervena Mogila”.

Keywords: Insulation co-ordination, overvoltages.