## EUR21\_07 - ARC FLASH HAZARD MITIGATION TECHNIQUES IN PRACTICE

## Author: Thomas V.M. Nielsen (ABB A/S)

**Abstract** - This paper presents practical mitigation techniques to reduce incident energy, by graphically visualization of theoretical and empirical studies in order to understand the dynamics of parameters that influence the energy released during an arc flash fault event. The practical use of mitigation techniques is based on the hierarchyof control measures from NFPA 70E [1]. The subjects in focusare; Substitution of existing equipment and recommendations for good design practices, Engineering controls reduce the arcing current or duration, increase the working distance and introduce work procedures. Allistomake electrical work saferand to ensure high reliability of electrical system performance. For further considerations a method to handle cases of generator near nature in relation to arc flash calculations is proposed.