

Łukasz John, Artur Dłużniewski: Protection Against Lightning of Stationary Railway Facilities. Part 2. Internal Protection – General Principles of Design

Principles of protecting electrical and electronic devices against overvoltage in stationary railway facilities are presented in the article. The overvoltage protection involves the use of zonal protection for systems and devices. There are described basic principles of screening as well as electrical wiring and signal transmission in order to avoid feedbacks between installations located in stationary railway facilities, such as: posts, signal boxes or local control centres (LCS). Overvoltage protection for modern systems and electronic devices located in a stationary railway facility is shown on the example of the local control centre (LCS) and the post.

Keywords: internal lightning protection, surge protectors, lightning protection zone, electric surge