

Krzysztof Tchórzewski: Verification of the GSM-R System Parameters for BSS Part

The Signaling and Telecommunication Laboratory of the Railway Research Institute has technical possibilities and an elaborated methodology of measurements execution of the quality parameters of the radio coverage and of the indicators of service quality. The article contains information regarding the role and tasks of this Laboratory as a notified body in the evaluation of the GSM-R system. The rules governing choice of modules for the evaluation of the railway radio system GSM-R and of the consequences of acceptance by an applier of a chosen module have been described. The article presents the required parameters of the quality of coverage of a railway line as well as the indicators of the quality of services of the GSM-R system subject to testing and EC evaluation of verification. It strongly emphasizes and underlines the meaning of measurements and verification of a system that are aiming to ensure the infallibility and correctness of provision of services required for the railways.

Keywords: certification, GSM-R system, radio signal, quality of service