

Lifetime Estimation of Signalling Electronic Equipment Based on Sensing Information of Usage Environment

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In recent years, technological development to shift from conventional time-based maintenance (TBM) to condition-based maintenance (CBM) has been progressing. In response to this trend, various efforts are being made for signaling equipment along railway tracks. However, there are issues to be solved when applying CBM to signaling electronic equipment of which indications of deterioration is difficult to be detected. Focusing on the environment in which signaling electronic equipment is installed, this paper describes the results of examining new methods for lifetime estimation of the equipment on the basis of sensing information of the usage environment.