

**Development of Visualization and Evaluation Systems
of the Low-frequency Magnetic Fields inside Railway Vehicles**

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In recent years, the movement toward the regulation and the standardization of low-frequency magnetic fields has accelerated. Initial regulations established in 2012 were applied to railway power equipment by the track wayside. Concurrently, methods to measure low-frequency magnetic fields on railway vehicles are being developed both in Japan and other countries. Thus, we studied the evaluation method of the low-frequency magnetic field inside railway vehicles, and developed the systems to evaluate the low-frequency magnetic field inside railway vehicles. In particular, we developed the visualization systems and evaluation systems of the low-frequency magnetic fields inside railway vehicles.