Measures against Middle-level Earthquake for Overhead Contact Line

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Middle-level earthquakes, which may cause damage not to railway viaducts but to contact line equipment, occur frequently in recent years. The damage to contact line equipment will make train services canceled from half a day to two days. We must show weak pieces in contact line equipment and take adequate measures against these earthquakes. This report describes measures against these earthquakes based on results of damage investigation and analyses of a three-dimensional dynamic simulation in contact line equipment.